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CITY DOCUMENTS

OF THE

CITY OF LOWELL

FOR THE YEAR

1880-'81.



LOWELL, MASS. :

CITIZEN PRESS, 44 CENTRAL STREET; KNAPP & SON.

1881.

Extract from the Ordinances of Lowell.

CHAPTER V.—CITY DOCUMENTS

SECTION 1. All City Documents (except the rules and regulations for the government of the police and fire departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECT. 2. All City Documents shall annually be bound together in one volume, under the direction of the City Clerk; and three or more copies shall be deposited in the city library, and one copy in the library of the Middlesex Mechanics' Association. One copy shall be sent to each city of the Commonwealth, to the library of Harvard College, the public library of Boston, the State library, and the Smithsonian Institution at Washington.

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1. Inaugural Address of His Honor FREDERIC T. GREENHALGE, Mayor of the City of Lowell, to the two branches of the City Council, January 3, 1881.
2. Municipal Register, containing Rules and Orders of the City Council, and a list of the Government and Officers of the City of Lowell for 1881.
3. Fifty-fifth Annual Report of the School Committee of the City of Lowell, together with the Seventeenth Annual Report of the Superintendent of Public Schools, 1880.
4. The Auditor's Forty-fifth Annual Report of the Receipts and Expenditures of the City of Lowell, together with the Treasurer's Account, for the Financial Year ending December 31, 1880.
5. Annual Report of the Directors of the City Library, for the year 1880.
6. Annual Report of the Board of Health, for the year 1880.
7. Annual Report of the City Physician and Superintendent of Burials of the City of Lowell, for the year 1880.
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9. Annual Report of the Chief Engineer of the Fire Department, for the year ending March 31, 1881.
10. Eighth Annual Report of the Water Board of the City of Lowell to the City Council, accompanied by the Reports of the City Engineer and of the Superintendent of Water Works to the Board, January 1, 1881.
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12. Annual Report of the City Solicitor, for the year ending February 28, 1881.
13. Fifty-fifth Report of the Overseers of the Poor of the City of Lowell.
14. Annual Report of the Superintendent of Streets, for the year ending December 31, 1880.
15. Annual Report of the Superintendent of Public Buildings, for the year 1880.
16. Annual Report of the Superintendent of Street Lamps, for the year 1880.
17. Annual Report of the Superintendent of City Scales and Measurer of Wood and Bark, for the year 1880.
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THE
INAUGURAL ADDRESS
OF
HIS HONOR
FREDERIC T. GREENHALGE,
MAYOR OF THE CITY OF LOWELL,
TO THE
TWO BRANCHES OF THE CITY GOVERNMENT,
JANUARY 3, 1881.



LOWELL, MASS.:
STONE, BACHELLER & LIVINGSTON, 18 JACKSON STREET.
1881.

CITY OF LOWELL.

IN COMMON COUNCIL, January 3, 1881.

ORDERED, If the Board of Aldermen concur, That His Honor the Mayor be requested to furnish a copy of his Address for publication.

IN COMMON COUNCIL, January 3, 1881.

Read and adopted; sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 3, 1881.

Read and adopted in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

ADDRESS.

GENTLEMEN OF THE CITY COUNCIL:

I congratulate you upon the very favorable auspices under which you assemble here on this first day of the municipal year. Prosperity has smiled upon us for some time past, and still beckons us onward to higher and grander results. Our population numbers sixty thousand; our assessed valuation has increased from \$39,677,399 to \$41,036,520; our commercial and industrial interests exhibit an extraordinary activity and growth; and into this material prosperity seems to be infused a spirit of independent and local life, which has hitherto been wanting. To those who have watched the progress of our city for the last few years, it must be evident that we have reached a transitional point—an era of great

changes, of rapid forward strides, of vast improvements and grand projects—

“For the old order changeth, yielding place to new.”

Sound judgment and careful thought will be required in dealing with these matters, but courage and a spirit of progress are equally in demand. Wisdom and enterprise must combine.

What may seem to the men of the era that is passing away a headlong rush into extravagance, will to those of the new era appear only the adoption of necessary and indispensable improvements. We have reached a point where two forces—conservatism and progress—have come into violent antagonism, and it will be for you this year to say which shall be the prevailing force.

Let us turn our attention first to the object of primary importance in our city,

THE PUBLIC SCHOOLS.

Our public schools are in good condition. The number of children attending these schools is larger than ever before. It was supposed that the establishment of parochial schools by the authorities of the Roman Catholic Church, would have a great effect

upon the attendance in the public schools, but notwithstanding the considerable number of children who have been withdrawn from our schools to attend these parochial schools, the increase of our population has been such as to keep the average attendance nearly as high as last year.

The whole number of scholars who attended school at any time in the year 1879 was 8911; the whole number last year was 9709 — an increase of 798 in a year. The average attendance, however, shows a slight decrease during the past year, attributable to the opening of the parochial school.

The evening schools are in a flourishing condition. Their importance cannot be over-estimated. In these schools there are 1062 scholars, who, being obliged to do daily work for their daily bread, are unable to attend the day schools.

The school of drawing and design is accomplishing great results. The interest in the subjects taught there seems to be growing stronger year by year.

I am free to say that in my opinion the introduction of the free-text book system into the public schools of our city is a movement which cannot but be productive of the most valuable results. The people are our governors. The education of the people, then, must be the first object of public con-

cern—herein lies the very safety of the Commonwealth “*Salus civitatis est suprema lex.*” We have in this country equality; rich and poor stand upon the same footing. There is no invidious distinction to torture the sensitive mind of the poor man’s child; and starting as equals before the law in the tasks of childhood, our children will imbibe true and just principles of equality and fraternity which will guide and govern them in the graver duties of manhood.

The money invested by the city in free textbooks will return larger dividends than investments in new bridges, new city halls, or in almost any conceivable improvement.

The total expenditure for 1880 was \$135,692.86, and there is a balance in the treasury of \$8694.24.

SEWERS AND DRAINS.

The expenditure for the construction of sewers and drains continues to be large, and I cannot see any immediate prospect of its reduction. In the last eight years the city has paid for this work \$497,000. I should strongly recommend that, as the perfecting of the sewer system is a work vast and permanent in its nature, like the construction of the water works, and as much for the benefit of those who come after us as for ours, a permanent loan be

made to meet this large expenditure, which ranges from sixty to seventy thousand dollars every year. This plan will relieve the tax-payers, and is quite feasible. Money can be borrowed at very low rates of interest, say four per cent. or even less, and by the establishment of the sinking-fund required by law can easily be paid off.

Great care and judgment were displayed by the committee on sewers last year in the matter of taking land rights for purposes of drainage, and reasonable and advantageous settlements were made in behalf of the city in almost every instance. The expenditure in this department was \$66,924.63.

CITY LIBRARY.

Great improvements have been made in the condition of our City Library. Books of solid merit, which are not of "an age, but for all time," have been added, and we believe that the patrons of the institution have been gradually led to adopt a higher standard of reading. Even the works of lighter character have improved in tone, and the novel is often used as a vehicle for instruction in history, art and science.

The services rendered by Rev. J. L. Seward, chairman of the committee on the new catalogue,

merit the gratitude and approbation of our citizens. He has given months of painstaking labor to this great work. The plan adopted is an improvement upon the system of cataloguing introduced by Mr. Dewey, of Amherst College. The classification of every volume, first, under the two heads of subject and author, and the further sub-division of these volumes into classes embracing every possible branch or title of knowledge, comprehending, like an accurate scientific analysis, families, *genera*, and species, will enhance the value of our library ten-fold.

I renew the recommendation made last year that the election of librarian be placed in the hands of the directors of the library.

I have only to say that I commend this excellent institution to the consideration and bounty of our wealthy citizens. It has been very scantily favored by donations of money or books. I trust that hereafter a new interest will be taken in its welfare, and that it may receive a generous support from our people.

STREETS.

Nineteen new streets have been accepted during the year. Six streets or avenues have been paved in whole or in part, sixteen thousand seven hundred

and thirty-eight square yards of paving-stones being required for the work. What I must consider an unwise predilection for paving has developed itself to a surprising extent in the City Council. Paving should only be used in great thoroughfares where heavy teaming will not permit a less durable roadway. For ordinary streets the system of macadamizing is vastly superior. The city last year purchased a stone-crusher, costing \$862.50, which turns out three different sizes of stone for macadamizing. Six streets were macadamized last year, and will, I doubt not, give great satisfaction.

I think it bad policy to accept streets which are not constructed. It is unwise for the city to go forward in making streets in wildernesses upon the theory that taxable property will thus be created. The scheme of the municipal government does not comprehend speculative investments of this sort. It is the business of the city to accept and to grade streets; no way which is not fit for a street, which has not been duly wrought for travel, should be adopted by the city, unless some great and direct benefit will thereby result to the public. There is a difference between repairing streets and making streets. Complaints are sometimes made that money is expended by the city on repairs of streets, without consulting the joint

standing committee of the city government. Repairs of streets we are bound to make; the statutes impose upon us the duty of keeping our streets and ways "safe and convenient"; we are liable to indictment if we do not; we have no choice. The laying out of new streets is a matter within our discretion and choice; the repairing of streets already established is not. If people choose to build dwellings in out-of-the-way places they must make their own roads; the city can only be asked to intervene and take charge of their roads when properly made and required by the common convenience and necessity; and the phrase "common convenience and necessity" does not signify simply the gain or emolument of some land speculator.

POLICE.

The police department of the city has been subject to much criticism during the year; it is easy to criticise; it is another matter to remedy defects. Under the excellent system established by the committee on police of last year, a better state of discipline has been established, and the new appointments have generally proved satisfactory. It can readily be seen that harmony and discipline are essential to the successful working of the department, yet it is not

always possible to suppress the spirit of faction and discontent. The position of a police officer is one of great responsibility, calling for courage, judgment, sobriety, and honesty. Men whose only qualification for the force is that they have failed in other callings, are not likely to meet the high requirements of a good officer. Upon the whole, I believe that the tone and character of the force are improving day by day, and I hope that the careful and scientific system of management adopted by the police committee of last year may be continued.

A police wagon and horse have been purchased during the year, and are very useful. The total expenditure in this department was \$53,663.17.

PAUPERS.

The spirit of pauperism is spreading. A certain class of the community seem to believe that they should be supported in idleness and debauchery by their sober and industrious fellow-citizens. Imposture and falsehood are resorted to in order to wheedle the city authorities out of charity that belongs to the worthy poor. Demands are made for work, with no expectation or desire that work shall be furnished. Before the wood-yard was established in the rear of the Market House, the applications

for employment at the Mayor's office were almost incessant. In the wood-yard, men who are out of work can get temporary employment until they can get something better. Since its establishment the applications for employment have, however, fallen off with startling rapidity.

The City Farm is in excellent condition in all its departments. The Reform School maintains its exceptionally high character. I should strongly recommend the erection of an asylum for the incurable and harmless insane. The city pays annually between \$6000 and \$7000 to the state hospitals for the support of these unfortunates, who could be maintained in our institutions at a much less expense. In a few years the establishment would pay for itself from the amount saved.

FIRE DEPARTMENT.

The apparatus of the fire department remains substantially the same as last year, with the following exceptions: one hose carriage has been dispensed with and the company disbanded, and a salvage wagon, stationed at the engine house on Warren Street, has been added to the department. The status of the volunteer hose company in Pawtucketville is a subject of controversy; and I should recommend

that some action be taken to settle the question. The department is in good condition, both as to material and discipline. Only one great conflagration has occurred during the year, viz: the burning of the Chase mill and the mills of L. W. Faulkner & Son. This fire was, in effect, a public calamity. It is, however, a matter of congratulation to all that Mr. C. B. Snyder and Messrs. Faulkner are about to rebuild their mills and resume their business. The total expenditure in this department was \$54,147.31.

THE LICENSE LAW.

The schedule of prices for licenses to sell intoxicating liquors was fixed last year at what was considered a very high standard. Notwithstanding this fact, the applicants for licenses were very numerous, and the number of applications granted, though considerably less than the number granted the previous year, was considered excessive by a large portion of the community. Prosperity came to us, bringing its attendant train of evils. Extravagance, display and pride were the symptoms manifested in one portion of society; in another portion, drunkenness was the prominent symptom; and as drunkenness leads to crimes of violence and assails more openly the public welfare, legislation is invoked to guard against its

dangers and consequences. We are all agreed as to principles in this matter—the only controversy is as to methods. One method deals exclusively with the seller of intoxicants, another with the purchaser, and a third method seeks to combine the good features of the other two. All good citizens will, in any event, hope that temperance and virtue may in some way be evoked from the contention; and I trust that the labors of the mayor and aldermen may contribute in some degree to this most desirable end.

FINANCE.

There was in the treasury, after paying the December draft, heretofore paid after the close of the municipal year, \$51,472.35. The ordinary city debt was reduced during the year by the payment of \$37,000. In addition to this payment, a sinking fund was established by an ordinance passed April 13, 1880, appropriating the sums paid back to the city by the commonwealth on account of the corporation tax and the national bank tax, which last year amounted to \$39,743.70. The actual reduction of municipal indebtedness during the year 1880 was therefore \$76,743.70. It seems to me that unless some extraordinary occasion arises for the expen-

diture of money, the rate of taxation may hereafter be somewhat reduced. I append hereto the usual financial exhibit prepared by the auditor:

FINANCIAL.

The balance in the treasury January 1, 1880, was.....	*\$44,710 44
The Amount received into the treasury during the year was.....	1,438,382 43
Total.....	\$1,483,092 87
The amount paid from the treasury during the year was	1,431,620 52
The balance in the treasury December 31, 1880, was	<u>\$51,472 35</u>

CITY DEBT.

The amount of the ordinary city debt January 1, 1880, was.....	\$481,000 00
This has been increased during the year by the amount of two notes given as follows:	
To the Lowell Institution for Savings, for money to pay for the city hall building lot	\$85,300 00
To the Lowell Institution for Savings, for money to pay a note which matured at the City Institution for Savings.....	50,000 00
	<u>135,300 00</u>
	\$616,300 00
There has been paid during the year on account of the ordinary city debt, two notes amounting to.....	87,000 00
Total ordinary debt of the city December 31, 1880.....	<u>\$529,300 00</u>
<i>Amount carried forward.....</i>	<i>\$529,300 00</i>

* That the comparison between the amounts in the treasury January 1, and December 31, 1880, may be fairly made, the sum of \$32,937.04 (it being the amount of the draft for December, 1879, unpaid) should be deducted from \$44,710.44, making the amount in the treasury after the payment of the draft for December, 1879, \$11,773.40. The draft for December, 1880, is paid, and a balance left in the treasury of \$51,472.35, or \$39,698.95 in excess of the amount at the commencement of the year.

CITY DEBT. — *Continued.*

<i>Amount brought forward</i>	\$529,300 00
The debt of the city on account of water works, January 1, 1880, and which remained the same December 31, 1880, was	1,800,000 00
Total debt of the city December 31, 1880....	<u>\$2,329,300 00</u>
The ordinary city debt December 31, 1880, was	\$529,300 00
The amount of the sinking fund, established by the City Council, April 13, 1880, for the reduction of the ordinary city debt December 31, 1880, was.....	\$39,743 70
The amount of the city hall building lot sinking fund, December 31, 1880, was.....	7,000 00
	<u>46,743 70</u>
The net ordinary city debt December 31, 1880, was.....	<u>\$482,556 30</u>
The debt of the city on account of water works December 31, was.....	\$1,800,000 00
The amount of the water loan sinking fund December 31, 1880, was.....	\$248,514 99
The amount of the sinking fund for the payment of the loan of 1876, December 31, 1880, was.....	17,424 64
	<u>265,939 63</u>
Net debt of the city on account of water works December 31, 1880.....	<u>\$1,534,060 37</u>
The net ordinary city debt December 31, 1880, was.....	\$482,556 30
The net debt of the city on account of water works December 31, 1880, was.....	<u>1,534,000 37</u>
Total net debt of the city December 31, 1880...	<u>\$2,016,616 67</u>
The total net debt of the city December 31, 1879, was.....	\$2,054,274 08
The total net debt of the city December 31, 1880, was.....	<u>2,016,616 67</u>
Decrease in the net city debt during the year.	<u>\$37,657 41</u>

APPROPRIATIONS, EXPENDITURES AND BALANCES
FOR 1880.

	Balances, Receipts and Appropriations.	Transfers and Expenditures.	Balances.
Schools.....	\$144,387 10	\$135,692 86	\$ 8,694 24
School-Houses.....	39,159 10	33,278 04	5,881 06
Roads and Bridges.....	95,651 90	93,959 47	1,692 43
Reserved Fund.....	57,434 52	*41,779 20	15,655 32
Paupers.....	48,581 58	48,352 95	228 63
Police.....	57,108 37	53,663 17	3,445 20
Fire Department.....	54,998 56	54,147 31	851 25
Sewers and Drains.....	71,370 22	66,924 63	4,445 59
Commons.....	2,580 86	2,540 38	40 48
Printing and Advertising.....	3,278 10	3,185 72	92 38
Lighting.....	19,745 63	17,437 11	2,308 52
Public Buildings.....	20,906 82	9,968 63	10,938 19
City Library.....	6,435 27	6,298 10	137 17
Salaries.....	16,038 21	15,501 25	536 96
Health.....	7,170 84	5,282 82	1,888 02
Water Works.....	159,082 88	154,391 59	4,691 29
State Aid Laws of 1879.....	15,263 82	10,490 75	4,773 07
Aid for Poor and Indigent Sol- diers and Sailors.....	15,042 37	12,135 00	2,907 37
City Debt.....	87,000 00	87,000 00	
Interest.....	44,378 30	33,476 37	10,901 93
Corporation Tax.....	16,000 00	†16,000 00	
National Bank Tax.....	20,260 50	20,260 50	
State Tax.....	31,650 00	31,650 00	
<i>Amount carried forward.....</i>	\$1,039,524 95	\$953,568 85	\$80,109 10

* Of this amount \$19,000.00 was transferred to various appropriations.

† This amount was transferred to various appropriations.

APPROPRIATIONS, EXPENDITURES, ETC.—*Continued.*

	Balances, Receipts and Appropriations.	Transfers and Expenditures.	Balances.
<i>Amount brought forward....</i>	\$1,039,524 95	\$953,568 85	\$80,109 10
County Tax.....	15,904 08	15,904 08	
Abatement of Taxes.....	27,331 43	*5,469 57	21,861 86
Temporary Loan.....	303,000 00	303,000 00	
Water Loan Sinking Fund.....	25,000 00	25,000 00	
Sinking Fund for Loan of 1876..	4,000 00	4,000 00	
City Hall Building Lot Sinking Fund.....	7,000 00	7,000 00	
Fund for the reduction of the ordi- nary City Debt.....	39,743 70	39,743 70	
Carney Medal Fund.....	200 00		200 00
City Hall Building Lot.....	87,025 31	85,719 85	1,305 46
	<u>\$1,542,729 47</u>	<u>\$1,439,253 05</u>	<u>\$103,476 42</u>
State Aid (laws of 1866) due from Common- wealth.....		\$ 9,044 57	
Taxes of 1879, uncollected.....		5,859 75	
Taxes of 1880, uncollected.....		37,099 75	
Cash in Treasury, December 31, 1880.....		51,472 35	
		<u>\$103,476 42</u>	<u>\$103,476 42</u>

* This amount was abated by the Assessors.

GENTLEMEN: It is usual to fill these inaugural addresses with urgent exhortations to be faithful to the public interests, to be economical, unpartisan, and inflexible in devotion to duty. The influence of these exhortations seldom extends beyond the inauguration-day; and I think that perhaps if we should expend less force in exhortation we might have more left for performance. All I can say is this: The interests of the city of Lowell are now committed to your charge for the ensuing year. At the close of your term of office, let it be seen that you were faithful to your trust.

MUNICIPAL REGISTER:
CONTAINING
RULES AND ORDERS
OF THE
CITY COUNCIL,
AND A LIST OF
THE GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL.
1881.



LOWELL, MASS.:
VOX POPULI PRESS: HUSE, GOODWIN & CO., 130 CENTRAL STREET.
1881.

JOINT RULES AND ORDERS OF THE CITY COUNCIL.

1. In the month of January joint standing committees shall be appointed as follows:

- A COMMITTEE ON ACCOUNTS.
- A COMMITTEE ON CLAIMS.
- A COMMITTEE ON EDUCATION.
- A COMMITTEE ON FINANCE.
- A COMMITTEE ON THE FIRE DEPARTMENT.
- A COMMITTEE ON LANDS AND BUILDINGS.
- A COMMITTEE ON MILITARY AFFAIRS.
- A COMMITTEE ON ORDINANCES AND LEGISLATION.
- A COMMITTEE ON PRINTING.
- A COMMITTEE ON STREETS.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman; of the Committee on Finance, the member first named in the Common Council shall be chairman; and in all joint special committees, the member first named in the board where the business originates, shall be chairman, and shall call the committee together.

4. The reports of all committees, signed by a majority of the members, shall be made to the board in which the business referred originated.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed Ordinances; the enacting clause of which shall be — “Be it ordained by the City Council of the City of Lowell, as follows.”

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to a second reading, but if it has not previously been in the hands of some joint committee it shall first be so referred. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceeding shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board, to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen, and be sent to the Mayor for his approval.

9. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be enrolled by the Clerk of the Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President

of the Common Council and the Chairman of the Board of Aldermen, and be sent to the Mayor for his approval.

10. Joint orders shall require but one reading, and when adopted shall be sent to the Mayor for his approval, except when they relate to a question of a convention of the two branches, or the election of any officer.

11. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day.

12. Every appropriation of money exceeding fifty dollars, shall be by resolution.

13. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order, shall be founded; and all papers on their passage between the two boards shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officers. If papers come before either board which have been duly acted upon in either board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

14. All enrolled ordinances shall be written in a fair and legible hand, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

15. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

16. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

17. No committee shall enter into any contract with any of its members, or purchase, or authorize the purchase of, any article therefrom.

18. No chairman of any committee shall audit or approve any bill or account against the city, for any supplies or services which shall not have been ordered or authorized by the committee.

19. All reports and other papers submitted to the City Council shall be written in a fair hand, without endorsement,

except in case of the introduction of an order. In such case the member introducing an order shall subscribe his name at the bottom of the back of the order. All other endorsements upon the back of papers shall be made by the clerks, and the clerks of the boards respectively shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

20. No business shall be transacted by the City Council in Convention, except such as shall have been previously agreed on, unless by unanimous consent.

21. After the annual appropriations shall have been passed, no subsequent expenditure shall be authorized for any object, unless provision for the same shall be made by a specific transfer from some of the appropriations contained in the annual resolution, or by expressly creating therefor a city debt; but no such debt shall be created unless the resolution authorizing the same pass by the affirmative votes of two thirds of the whole number of each branch of the City Council, said votes to be taken by yeas and nays, excepting in case of appropriations for the providing of armories for the use of military companies, for the celebration of holidays, and for other purposes of a public nature, when a vote of two thirds of the members of each branch of the City Council present and voting shall be sufficient, but the amount of such appropriations named in this clause shall not exceed one fiftieth part of one per cent. of the valuation of the city for the same year.

22. In ballotings in joint Convention, blanks shall not be counted.

23. Either board may propose to the other a time to which both will adjourn; and neither shall adjourn without giving notice to the other of its intention.

24. Reports of city officers, after being presented, shall remain in the office of the City Clerk two weeks before being printed.

25. These rules may be suspended for a specific purpose, or amended, whenever twenty-two members of a joint Convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and sixteen members of the Common Council.

RULES AND ORDERS OF THE BOARD OF ALDERMEN.

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows :

First — Reading the journal, if it be a regular meeting, of the last regular meeting and all subsequent special meetings.

Second — Petitions and similar papers.

Third — Appointments, elections, etc.

Fourth — New business, which unless otherwise ordered will take its place at the foot of the Orders of the Day.

Fifth — Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common Council, and such matters as have been introduced as new business. By a vote of six members, any matters in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote ; and on the demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of

them shall be confined to the actual motion and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting, which latter motion shall have priority if made before the motion first mentioned shall have been decided. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January, the following committees shall be appointed :

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON COMMONS.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON POLICE.

A COMMITTEE ON REPAIRS OF STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

The Committees on Licenses, on Police, and on Sewers shall consist of three members each; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission if his presence is necessary to make a quorum.

10. The clerk shall prepare for the use of the board a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee, the question shall first be upon a standing committee of the Board, then a special committee, then a joint standing committee, and last, a joint special committee.

12. These rules may be amended or suspended whenever two thirds of the members present may so vote, but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All petitions for the appointment or removal of police officers and watchmen, shall, before any action thereon is taken by the Board, be referred to the Committee on Police.

14. All nominations of persons to serve as police officers and watchmen, shall, before action thereon by the Board, be referred to the Committee on Police, who shall report upon such nominations at or before the next regular meeting after such reference.

RULES AND ORDERS OF THE COMMON COUNCIL.

1. The President shall take the chair precisely at the hour appointed for the meeting, call the members to order, and within ten minutes (or sooner if a quorum be present) he shall cause the roll to be called and the names of the absentees recorded. The first business after the roll call, shall be the approval of the records of the previous meeting, which shall be approved without reading, unless their reading be called for by some member. In the absence of the President, the oldest member present shall call the Council to order, and preside until a President *pro tempore* be chosen.

2. He shall preserve order and decorum; may speak to points of order in preference to other members, rising from his seat for that purpose; and shall decide questions of order, subject to an appeal to the Council by any member.

3. He shall rise to address the Council, to state facts, but may put questions, or read, sitting.

4. He shall declare all votes; but if a vote be doubted, the President shall, without further debate, require the members voting in the affirmative and negative to rise and stand until they are counted, and he shall declare the result.

5. He may call any member to the chair, but such substitution shall not extend beyond an adjournment; and when out of the chair the President may express his opinion on any subject under debate, and he shall not resume the chair while the same question is pending.

6. All questions shall be propounded in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the Council, unless the mover withdraw it before a decision or amendment.

8. A motion to adjourn shall always be in order; that and the motion to lay on the table, shall be decided without debate.

9. The previous question shall be in this form: "Shall the main question be now put?" It shall only be admitted when demanded by a majority of the members present; and, until it is decided, shall preclude all amendment and further debate of the main question.

10. The yeas and nays shall be taken on any question upon the request of one third of the members present.

11. When two or more members happen to rise at the same time, the President shall name the member who shall speak first.

12. When any member is about to speak in debate, or deliver any matter to the Council, he shall rise in his place, and respectfully address the presiding officer, confining himself to the question under debate, and avoid personality.

13. No member shall be mentioned in debate by his name, but may be described by the place he sits in, or such other designation as may be intelligible and respectful.

14. No member speaking shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgress the rules of the Council, the President shall, or any member may, call him to order; in which case the member so called to order shall immediately sit down, until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without the leave of the Council.

15. No member shall speak more than twice to the same question, without obtaining leave of the Council.

16. Whilst the President or any member is speaking, none shall stand up or pass unnecessarily before the person speaking.

17. Every motion shall be reduced to writing, if the President or any member require it.

18. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous

question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition.

19. A motion for the reconsideration of a vote shall be open to debate, but such motion shall not be considered unless made by a member voting with the majority, or unless notice thereof be given at the meeting at which the vote passed, in which case the motion shall be made at the next meeting after; and only one motion for the reconsideration of any vote shall be permitted.

20. Every member who shall be in the Council when a question is put shall give his vote, unless the Council, for special reasons, excuse him.

21. No motion or proposition on a subject different from that under consideration shall be admitted under color of an amendment.

22. All reports may be committed or recommitted at the pleasure of the Council.

23. The division of a question may be called for when the sense will admit of it.

24. When the reading of a paper is called for and objected to, it shall be determined by a vote of the Council.

25. No standing order of the Council shall be suspended, unless three fourths of the members present consent thereto; nor shall any rule or order be repealed or amended, without one day's notice being given of the motion therefor, nor unless a majority of the whole Council concur therein.

26. All committees, except such as the Council determine to select by ballot, shall be nominated by the President.

27. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

28. All memorials and other papers addressed to the Council, shall be presented to the President, or by a member in his place, who shall explain the subject thereof, and they shall be taken up in the order in which they were presented, unless the Council shall otherwise direct.

29. Standing committees shall be appointed on the following subjects :

ON SECOND READING OF BILLS AND ORDINANCES.

ON ENROLLMENT.

ON ELECTIONS AND RETURNS.

30. No committee shall sit during the sitting of the Council without special leave, except the committee on the Second Reading of Bills and Ordinances, and the Committee on Enrollment.

31. The rules of proceeding in the Council shall be observed in the Committee of the Whole, so far as they are applicable, except the rule limiting the time of speaking.

32. When a committee is nominated by the chair, the person first named shall be chairman. In election of committees by ballot, when a chairman is not specially chosen, the person having the highest number of votes shall act as chairman, and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

33. All ordinances and resolutions shall have two several readings before they shall be finally passed by this Council.

34. All ordinances before being read a second time shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which second reading, the question shall be on passing the same to be enrolled.

35. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

36. The seats of the Common Council shall be numbered, and determined by lot, and no member shall change his seat but by permission of the President.

37. All committees of the Council shall consist of three members, unless a different number be specially ordered. And no report shall be received from any committee, unless agreed to in committee actually assembled; and all reports shall be in writing.

38. It shall be the duty of every committee of the Council, to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

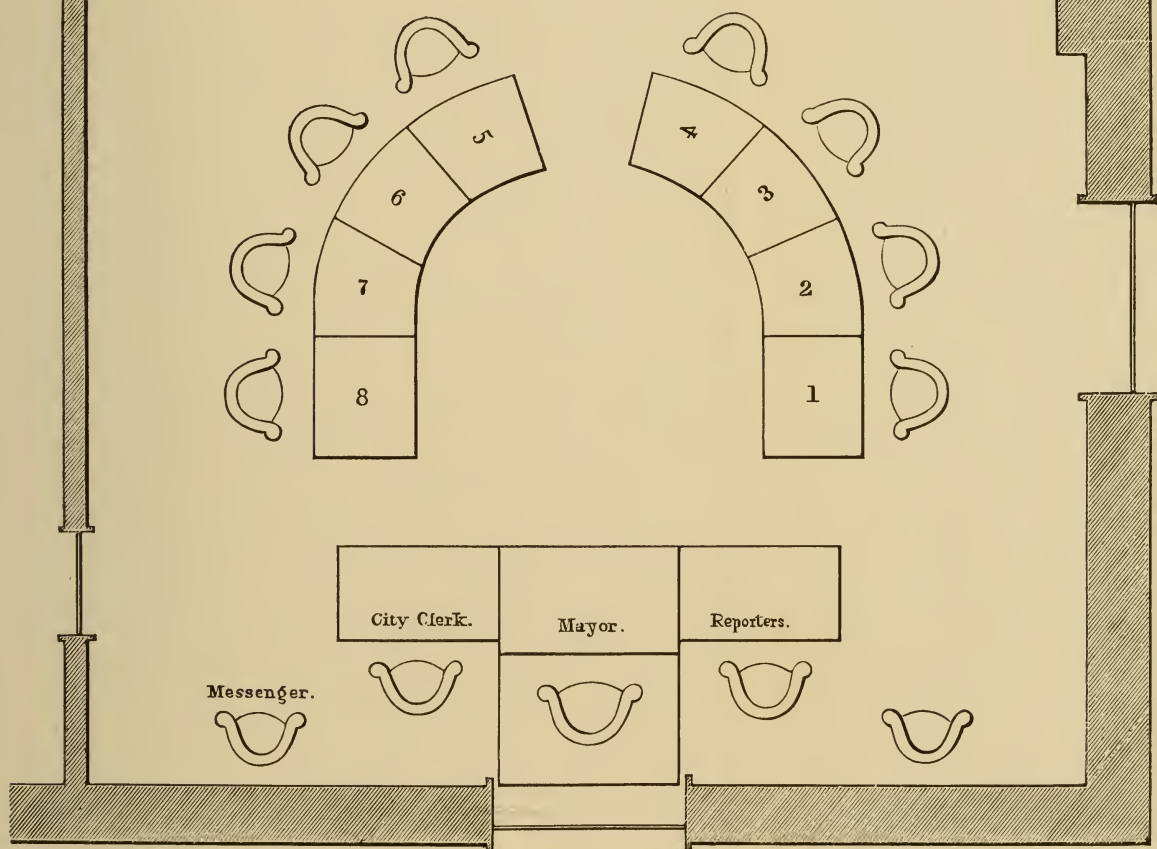
39. The clerk shall keep brief minutes of the votes and proceedings of the Council, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles, or a brief description of their purport.

40. All salary officers shall be chosen by written or printed ballots, and in the election of any officers by ballot, blanks shall be counted.

41. Members of the Council may attend meetings of any of its committees, but shall not vote thereat.

42. The clerk of the Common Council shall keep the record of committees who may require that service; and on the appointment of every standing committee, a book for records shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of the members of the City Council.

PLAN OF
ALDERMEN'S ROOM
 LOWELL MASS.



FREDERIC T. GREENHALGE,
Mayor.

- | | |
|--------------------------|--------------------------|
| 1—ISAAC F. SCRIPTURE. | 5—SAMUEL D. BUTTERWORTH. |
| 2—CHARLES H. RICHARDSON. | 6—AMBROSE L. READY. |
| 3—LEVI SPRAGUE. | 7—ROBERT WOOD. |
| 4—THOMAS R. GARITY. | 8—JULIUS A. STILES. |

SAMUEL A. McPHETRES, *City Clerk.*

JOHN H. NICHOLS, *Messenger.*

GOVERNMENT OF THE CITY OF LOWELL, 1881.

MAYOR.

FREDERIC T. GREENHALGE,

Wyman, near Nesmith Street.

ALDERMEN.

Chairman—ISAAC F. SCRIPTURE.

CHARLES H. RICHARDSON.....	19	Lawrence Corp.
ISAAC F. SCRIPTURE.....	68	Chapel Street.
ROBERT WOOD.....	96	Liberty Street.
AMBROSE L. READY.....	118	Walker Street.
LEVI SPRAGUE.....		Mansur Street.
JULIUS A. STILES.....	132	Suffolk Street.
SAMUEL D. BUTTERWORTH.....	113	Moore Street.
THOMAS R. GARITY.....	16	Bowers Street.

COMMON COUNCIL.

President—CHARLES C. HUTCHINSON.*Ward One.*

THOMAS J. FLYNN.....	221	Market Street.
LAWRENCE CUMMINGS.....	61	Adams Street.
ROBERT J. THOMAS.....	135	Adams Street.
JEREMIAH J. HAYES.....	222	Market Street.

Ward Two.

ZACHARIAH D. HALL.....	79	French Street.
JAMES M. HOWE.....	76	First Street.
HUBERT M. POTTER.....	27	Hampshire Street.
MOSES GIBSON.....	255	Bridge Street.

Ward Three.

FRANK WOOD.....	17	Hudson Street.
PETER H. DONOHOE.....	68	Gorham Street.
JOHN E. MAGUIRE.....	10	Mead Street.
D. MOODY PRESCOTT.....	117	Moore Street.

Ward Four.

JULIUS C. JOHNSON.....	32	Dover Street.
STEPHEN C. DAVIS.....	97	Westford Street.
EDWARD GARNER.....	19	Hamilton Corp.
WILLIAM N. OSGOOD.....	6	School Street.

Ward Five.

ATKINSON C. VARNUM.....	9	Varnum Avenue.
SAMUEL HOSMER.....	116	Salem Street.
SAMUEL P. MARIN.....	19	Bowers Street.
ALBERT W. BURNHAM.....	11	Varney Street.

Ward Six.

CHARLES C. HUTCHINSON...	25	Nesmith Street.
ALBERT G. THOMPSON.....	17	Ash Street.
THOMAS NESMITH.....	2	Park Street.
LAWRENCE J. SMITH.....	4	Keelan's Place, Fayette St.

**PLAN OF
COMMON COUNCIL ROOM
LOWELL MASS.**

The diagram illustrates the layout of the Common Council Room. The seating is arranged in a semi-circle, with 24 numbered seats. The seats are numbered 1 through 24 in a clockwise direction starting from the bottom right. The front of the room features three designated positions: 'Clerk.' at the top, 'President.' in the center, and 'Messenger' and 'Reporters.' at the bottom. The room is enclosed by a thick, dark border representing the walls and windows.

President.

- | | | | |
|-----------------------|-----------------------|-----------------------|------------------------|
| 1—JAMES M. HOWE. | 7—ROBERT J. THOMAS. | 13—SAMUEL HOSMER. | 19—THOMAS J. FLYNN. |
| 2—D. MOODY PRESCOTT. | 8—LAWRENCE CUMMINGS. | 14—MOSES GIBSON. | 20—THOMAS NESMITH. |
| 3—SAMUEL P. MARIN. | 9—HUBERT M. POTTER. | 15—STEPHEN C. DAVIS. | 21—WILLIAM N. OSGOOD. |
| 4—ALBERT G. THOMPSON. | 10—LAWRENCE J. SMITH. | 16— | 22—ZACHARIAH D. HALL. |
| 5—JULIUS C. JOHNSON. | 11—PETER H. DONOHUE. | 17—JOHN E. MAGUIRE. | 23—ALBERT W. BURNHAM. |
| 6—EDWARD GARNER. | 12—FRANK WOOD. | 18—JEREMIAH J. HAYES. | 24—ATKINSON C. VARNUM. |

JOHN H. NICHOLS, *Messenger*.

CITY CLERK.

SAMUEL A. MCPHETRES.....School, corner Bowers Streets.

Chosen in Convention of the City Council, on the first Monday in January. City Charter, Sect. 17.

ASSISTANT CITY CLERK.

FRANK W. SEARLE.....100 Bartlett Street.

Nominated by the City Clerk and confirmed by the Board of Aldermen. Ord., Chap. 12, Sect. 2.

CLERK OF COMMON COUNCIL.

DAVID CHASE.....15 Fourth Street.

Chosen on the first Monday in January. City Charter, Sect. 14.

CITY MESSENGER.

JOHN H. NICHOLS.....33 Hampshire Street.

Chosen by concurrent vote in January. Ord., Chap. 23, Section 4.

MEETINGS OF THE CITY COUNCIL.

The Regular Meetings of the City Council are held at the City Hall, on the Second and Fourth Tuesdays of each month, except August, at 7½ o'clock in the evening, as follows:

January.....11th and 25th.	July.....12th and 26th.
February.....8th and 22d.	September.....13th and 27th.
March.....8th and 22d.	October.....11th and 25th.
April.....12th and 26th.	November.....8th and 22d.
May.....10th and 24th.	December.....13th and 27th.
June.....14th and 28th.	

COMMITTEES OF THE CITY COUNCIL.

JOINT STANDING COMMITTEES.

- ON ACCOUNTS.—Aldermen Sprague and Richardson; Councilmen Burnham, Hall, and Smith.
- ON CLAIMS.—Aldermen Wood and Sprague; Councilmen Varnum, Garner, and Hayes.
- ON EDUCATION.—Aldermen Scripture and Ready; Councilmen Osgood, Thompson, and Maguire.
- ON FINANCE.—The Mayor; Alderman Sprague; Councilmen Hutchinson, Wood, and Burnham.
- ON FIRE DEPARTMENT.—Aldermen Richardson and Garity; Councilmen Davis, Hosmer, and Flynn.
- ON LANDS AND BUILDINGS.—Aldermen Scripture and Butterworth; Councilmen Howe, Donohoe, and Nesmith.
- ON MILITARY AFFAIRS.—Aldermen Richardson and Garity; Councilmen Potter, Prescott, and Hayes.
- ON ORDINANCES AND LEGISLATION.—Aldermen Sprague and Stiles; Councilmen Osgood, Cummings, and Prescott.
- ON PRINTING.—Aldermen Stiles and Wood; Councilmen Johnson, Cummings, and Marin.
- ON STREETS.—Aldermen Wood and Ready; Councilmen Wood, Gibson, Thomas, Osgood, and Varnum.

STANDING COMMITTEES.

OF THE BOARD OF ALDERMEN.

ON BILLS IN SECOND READING.—Aldermen Garity and Wood.

ON COMMONS.—Aldermen Stiles and Garity.

ON ENROLLMENT.—Aldermen Garity and Stiles.

ON LICENSES.—Aldermen Scripture, Stiles, and Garity.

ON LIGHTING STREETS.—Aldermen Richardson and Garity.

ON POLICE.—Aldermen Butterworth, Scripture, and Ready.

ON REPAIRS OF STREETS.—Aldermen Wood and Ready.

ON SEWERS.—Aldermen Richardson, Butterworth, and Sprague.

ON STATE AID, &c.—Mayor Greenhalge, Aldermen Richardson and Garity.

ON WEIGHTS AND MEASURES.—Aldermen Stiles and Scripture.

OF THE COMMON COUNCIL.

ON BILLS IN SECOND READING.—Councilmen Marin, Potter, and Maguire.

ON ENROLLMENT.—Councilmen Hall, Johnson, and Smith.

ON ELECTIONS AND RETURNS.—Councilmen Garner, Hayes, and Thompson.

CITY OFFICERS, 1881.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN H. McALVIN.....Office, City Hall.

Chosen by the City Council in convention in January. City Charter, Sect. 17. Deputy Collectors are selected and appointed by the Treasurer and Collector.

AUDITOR OF ACCOUNTS.

DAVID CHASE.....Office, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

SUPERINTENDENT OF STREETS.

JOHN C. WOODWARD..Office, at Civil Engineer's Room, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

SURVEYORS OF HIGHWAYS.

Mayor FREDERIC T. GREENHALGE; Alderman ROBERT WOOD;
Councilman MOSES GIBSON.

Chosen by concurrent vote in January or February. City Charter, Sect. 17. Ord., Chap. 23, Sect. 1.

CIVIL ENGINEER FOR THE CITY.

GEORGE E. EVANS.....Office, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

CITY SOLICITOR.

GEORGE F. LAWTON.....Office, 45 Central Street.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

LIBRARIAN OF THE CITY LIBRARY.

MARSHALL H. CLOUGH....Office at the Library, Masonic Temple.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

DIRECTORS OF THE CITY LIBRARY.

FREDERIC T. GREENHALGE, Mayor } *Ex*
 CHAS. C. HUTCHINSON, President of Common Council, } *Officiis.*
 Ward 1—JAMES WATSON. Ward 4—JOHN M. GREENE.
 “ 2—GEORGE M. ELLIOTT. “ 5—WILLIAM G. WARD.
 “ 3—JOSIAH L. SEWARD. “ 6—ELI W. HOYT.

The last six are chosen by concurrent vote in January or February. Ord., Chap. 6, Sect. 2.

SUPERINTENDENT OF PUBLIC BUILDINGS.

LORENZO G. HOWE.....Office, Middle Street.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

CITY PHYSICIAN.

EDWIN W. TRUEWORTHY.....Office, Stott's Block.

Appointed by the Mayor and Aldermen, January, 1879, for three years.

SUPERINTENDENT OF BURIALS.

EDWIN W. TRUEWORTHY.....Office, Stott's Block.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

ASSESSORS OF TAXES.

Office, City Hall, third story.

JAMES MARREN.

DAVID LANE.

WILLIAM W. READ.

LEVI B. STEVENS.

ISAAC A. FLETCHER.

MICHAEL H. McCUE.

LEVI B. STEVENS, *Chairman.* JAMES MARREN, *Secretary.**Assignment of Wards.*

Ward 1—JAMES MARREN.

Ward 4—DAVID LANE.

“ 2—WILLIAM W. READ.

“ 5—LEVI B. STEVENS.

“ 3—MICHAEL H. McCUE.

“ 6—ISAAC A. FLETCHER.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

OVERSEERS OF THE POOR.

Office, City Hall.

FREDERIC T. GREENHALGE, Mayor.....*Ex-Officio*.*Term expires January, 1882.**Term expires January, 1883.*

JOSEPH S. POLLARD.

GEORGE S. CUSHING.

ENOS O. KINGSLEY.

MICHAEL CORBETT.

PATRICK KEYES.

EDWIN LAMSON.

Chosen for two years in January, one-half retiring annually. City Charter, Sect. 29.

Sub-Committees.

ON FUEL AND OUT-DOOR RELIEF.—The Mayor, Messrs. Corbett and Cushing.

ON AGRICULTURE, NEAT CATTLE, AND SWINE.—Messrs. Kingsley, Keyes, and Corbett.

ON CARE AND REPAIR OF BUILDINGS.—Messrs. Pollard, Lamson, and Kingsley.

ON CLOTHING, BEDDING, AND FURNITURE.—Messrs. Cushing, Pollard, and Keyes.

ON PROVISIONS AND SUPPLIES.—The Mayor, Messrs. Corbett and Lamson.

ON DISPENSARY—Messrs. Cushing, Kingsley, and Keyes.

FREDERIC T. GREENHALGE, *Ch'n*. LEONARD F. JEWELL, *Sec'y*.

Regular Meetings of the Board at the City Almshouse, on the last week-day of each month, at 3 o'clock, P. M.

INSTITUTIONS AT THE CITY FARM.

These consist of the Almshouse, a Workhouse used for the imprisonment of certain convicts, and "The House for the Employment and Reformation of Juvenile Offenders in the City of Lowell." The farm embraces about one hundred and twenty-five acres, seventy-five of which are in a high state of cultivation.

LORENZO PHELPS, *Superintendent*.WILLIAM A. LANG, *Chaplain, and Teacher of Reform School*.

There are also one Male Assistant and one Female Assistant. The Superintendent is appointed by the Overseers of the Poor, annually, at the last meeting in December.

MEMBERS OF THE LOWELL WATER BOARD.

Office, City Hall.

ALBERT A. HAGGETT, *President*.

From the City Council.—Alderman ROBERT WOOD; Councilmen CHARLES C. HUTCHINSON and SAMUEL HOSMER.

From the Citizens at Large.—JAMES W. BENNETT, term expires May, 1882; ALBERT A. HAGGETT, term expires May, 1883.

Superintendent, HORACE G. HOLDEN.*Clerk*, JAMES M. BATTLES.

The members of the Lowell Water Board are chosen by concurrent vote in January, and in March or April. Ord., Chap. 41, Sect. 1. The Superintendent is chosen in March or April by concurrent vote. Ord., Chap. 41, Sec. 1. The Clerk is chosen by the Board. Ord., Chap. 41, Sec. 2.

COMMISSIONERS OF SINKING FUNDS.

JOHN F. KIMBALL, term expires January, 1882; JACOB ROGERS, term expires January, 1883; ELI W. HOYT, term expires January, 1884.

JACOB ROGERS, *Chairman*.JOHN H. MCALVIN, *Secretary and Treasurer*.

The Commissioners are elected under the provisions of Chapter 209, of the Acts of 1875.

POLICE DEPARTMENT.

Ord., Chap. 23, Sec. 3. Chap. 279, Acts of 1867.

The members of this Department are appointed by the Mayor and Aldermen, as Police Officers and Watchmen, with all the powers of Constables, except the power of serving and executing civil process, and hold their offices during the pleasure of the Board of Aldermen.

City Marshal.

EDWARD J. NOYES....Office, west end of Market House Building.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sec. 1.

Deputy Marshals.

JACOB G. FAVOR....Office, west end of Market House Building.

M. EUGENE McDONALD.....Captain of the Night Police.

Designated by the City Marshal, and appointed by Mayor and Aldermen. Ord., Chap. 23, Sect. 3.

Police Officers and Watchmen.

A portion of the following named officers are assigned to day service, and a portion to night service, but as they are frequently changed, they are given without any distinction.

EDWARD J. NOYES.	WILLIAM B. JONES.
JACOB G. FAVOR.	PATRICK KELLEY.
M. EUGENE McDONALD.	DANIEL W. LANE.
ALLEN P. BICKFORD.	EDWARD LAVELL.
JOHN C. BLOOD.	WILLIAM M. LEE.
LEVI BROWN.	ALBERT E. LIBBY.
JOHN BUCHANAN.	ISAAC L. LIBBY.
CORNELIUS E. COLLINS.	JOHN F. McCAFFREY.
JAMES CROWLEY.	JAMES McNABB.
JAMES F. DUNLAVY.	JAMES A. McQUADE.
ASA F. ESTY.	CHARLES J. MORSE.
HENRY FARRINGTON, <i>Sergeant.</i>	ALONZO J. PAGE.
HARRISON H. FULLER.	HENRY C. PIKE.
DAVID H. GOODHUE.	MASON W. PRESBY.
FRANK GOODWIN, <i>Sergeant.</i>	THOMAS F. RING.
JAMES A. HADLEY.	THOMAS J. SANBORN.
ALEXANDER W. HARPER.	FRANK T. THISSELL.
SIMON B. HARRIS.	HERMON N. TILTON.
DANIEL M. HAYES.	JOHN W. TILTON.
JOHN HICKSON.	DANIEL WALKER.
CHARLES HOWARD.	JAMES E. WEBSTER.
THOMAS INGALLS.	LEVI H. WITHAM.

Supernumerary Police Officers and Watchmen.

WILLIAM G. BUMPS.	BENJAMIN F. HANSON.
PETER T. CORCORAN.	GEORGE R. DAVIS.
WILLIS L. GARDNER.	CHARLES LAFLAMME.
WILLIAM H. GRADY.	WILLIAM B. MOFFATT.
CHARLES GREGG.	PETER F. O'DONNELL.
ENOCH N. GRINNELL.	CHARLES C. PACKARD.
WILLIAM R. KEW.	LAWRENCE ROURKE.
SUMNER T. MITCHELL.	EDWIN A. STACKPOLE.
GEORGE F. DUNLAVY.	

Special Police Officers and Watchmen not Paid by the City.

Lists of Special Police Officers are kept by the City Clerk and by the City Marshal.

Probation Officer.

EDWARD J. NOYES.

Keeper of the Lock-up.

EDWARD J. NOYES.

Constables.

EDWARD J. NOYES.

JACOB G. FAVOR.

DANIEL G. GREENLEAF.

JAMES HOPKINS.

EVERETT W. FRENCH.

JOHN H. NICHOLS.

JOSEPH H. GUILLET.

HENRY KILESKI.

DAVID FITZGERALD.

CHARLES J. SEARLE.

JOHN P. SEARLE.

JOSEPH R. WELCH.

EUGENE M. HASKELL.

JAMES W. CUMMISKEY.

JOHN F. McCAFFREY.

JOSEPH S. LAPIERRE.

FRANK GOODWIN.

HENRY FARRINGTON.

HARRISON H. FULLER.

M. EUGENE McDONALD.

DANIEL M. HAYES.

DANIEL WALKER.

JOHN H. McCUE.

City Charter, Sect. 7. Ord., Chap. 23, Sect. 2.

HEALTH COMMISSIONER.

EDWARD J. NOYES.....Office, City Marshal's Office.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

BOARD OF HEALTH.

JAMES W. B. SHAW, for 1880-81. NATHAN ALLEN, for 1881-82.

EDWIN W. TRUEWORTHY, City Physician.....*Ex-officio.**Chairman, JAMES W. B. SHAW.*

Appointed by the Mayor and Aldermen in January. Chap. 133, Acts of 1867.

SURVEYORS OF LUMBER.

LORENZO G. HOWE.

JAMES N. MORSE.

JOSHUA M. HADLEY.

ALFRED P. BATEMAN.

ATIS OSGOOD.

JOHN F. BATEMAN.

LUTHER SMITH.

SAMUEL NEWHALL.

GEORGE A. ROPER.

JAMES T. TRASK.

CHARLES O. DAVIS.

HARRY B. PETTINGILL.

CHARLES E. HOWE.

GEORGE W. CLIFFORD.

EDWARD STOCKMAN.

JAMES HOWARD.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

FENCE VIEWERS.

LORENZO PHELPS.

JOSHUA M. HADLEY.

EDWARD FIFIELD.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sec. 1.

FIELD DRIVERS.

OTIS F. LUDWIG.

CLARENCE G. COBURN.

NICHOLAS PIERCE.

THOMAS J. UNDERWOOD.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

POUND-KEEPER.

EDWARD J. NOYES.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

*MEASURER OF WOOD AND BARK.—SUPERINTENDENT OF CITY
SCALES.—INSPECTOR OF BALE OR BUNDLE HAY.*

SAMUEL M. PATTERSON. Office, at City Scales, rear of Market
House Building.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

MEASURERS OF WOOD AND BARK.

FRANCIS H. CHANDLER.....At Pawtucket Square.

GEORGE E. CHAMBERLAIN.....At Middlesex Village.

CHARLES W. SLEEPER.....At Lowell Machine Shop.

EDWIN E. AEREY.....At Tannery, Ayer's City.

JAMES F. MCKISSOCK.....At No. 25 First Street.

JOSEPH HOVEY.....In Centralville.

JOHN F. BATEMAN.....

SYDNEY DAVIS.....

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

WEIGHERS OF COAL.

SAMUEL M. PATTERSON.
 AUGUSTUS W. WEEKS.
 FRANK E. BENNETT.
 DANIEL LIVINGSTON.
 PETER MOLLAHAN.
 CHARLES H. CROWELL.
 WILLIAM W. MORSE.
 WILLIS J. HILL.

DANIEL W. HORNE.
 LORENZO WOOD.
 JOHN H. HOWARD.
 SYDNEY DAVIS.
 JOHN W. FALES.
 WILLIAM H. TAYLOR.
 JOHN B. BLESSINGTON.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

SEALER OF WEIGHTS AND MEASURES.

JAMES MURPHY.....Office, 26 Gorham Street.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

INSPECTOR OF MILK.

JAMES W. B. SHAW.....Office, City Hall.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

*SURVEYORS OF PLASTERING, BRICK OR STONE WORK,
 AND PAINTING.*

SAMUEL NEWHALL.
 LUTHER SMITH.
 GEORGE E. EVANS.
 JOSHUA M. HADLEY.
 JOHN F. BATEMAN.

WILLIAM F. OSGOOD.
 ATIS OSGOOD.
 ORA M. SNELL.
 MELVIN B. SMITH.
 ORIN F. OSGOOD.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

MEASURERS OF GRAIN.

JAMES BERRY.

GEORGE W. TILTON.

Fees 2½ mills per bushel for measuring. Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

WEIGHERS OF HAY AND OTHER ARTICLES.

EDMUND BRICKETT... At Scales, cor. Western Ave. and Fletcher St.
 FRANCIS H. CHANDLER..... At Scales, in Pawtucket Square.
 ORVILLE W. PEABODY..... At Hall & Peabody's, Dutton Street.
 CHARLES H. CROWELL..... At E. G. Parker's yd., Gorham Street.
 WILLIAM W. MORSE..... At Elevator Building, Western Ave.
 WILLIS J. HILL.....

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR RAILROAD CARS INTO THE CITY.

SAMUEL NEWHALL. JAMES T. TRASK. LUTHER SMITH.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

INSPECTORS OF PETROLEUM OILS.

EDWARD S. HOSMER. GEORGE B. ROOT.

Appointed by the Mayor and Aldermen. Chap. 152, Acts of 1869.

CITY CRIER.

Appointed by the Mayor and Aldermen in January or February. Ord., Chap. 9, Sect. 1.

MEASURERS OF UPPER LEATHER.

NATHAN W. FRYE. WILLIAM H. WHITE.
 JOHN Q. A. HUBBARD. EDWIN E. AEREY.

Appointed by the Board of Aldermen in April. Ord., Chap. 23, Sect. 2.

FISH WARDEN.

LUKE MCFARLIN..... Office, 40 Arlington Street.

Appointed by the Mayor and Aldermen. Chap. 289, Acts of 1867.

INSPECTOR OF BOILERS.

RICHARD DOBBINS..... Office, Dutton Street.

INSPECTOR OF PROVISIONS.

EDWARD J. NOYES.....Office, City Marshal's Office.

Appointed by the Mayor and Aldermen. Chap. 29, Acts of 1875.

JANITOR OF HUNTINGTON AND JACKSON HALLS.

JOHN F. COSGROVE.

Appointed by the Mayor.

FIRE DEPARTMENT FOR 1881-82.

The Chief and Assistant Engineers are appointed by the Mayor and Aldermen, in the month of April, annually, for the term of one year from the first day of May next succeeding. All other members of the Fire Department are nominated by the Board of Engineers, and appointed by the Mayor and Aldermen; and vacancies may be filled and removals made at any time.

City Charter, Sect. 31. Ord., Chap. 14. Chap. 63, Acts of 1869.

Chief Engineer.

EDWARD S. HOSMER.....12 Livermore Street.

Assistant Engineers.

HIRAM N. HALL.....84 High Street.
JAMES F. NORTON.....280 Central Street.
JOSIAH W. WHITE.....26 Third Street.
SAMUEL W. TAYLOR.....37 Rock Street.

HIRAM N. HALL, Clerk of the Board.

The Clerk is chosen by the Engineers.

Steam Fire Engines.

Hope Steam Fire Engine Company, No. 1.

Gorham Street.....11 Members.

BENJAMIN F. CROSBY, Foreman. JEWETT J. LOCKE, Engineer.

Weight, 7,575 pounds. Built in 1870, by the Union Machine Company, of Fitchburg.

Torrent Steam Fire Engine Company, No. 2.

Branch Street.....11 Members.

AUGUSTUS C. STEARNS, Foreman. GEORGE MADDOCKS, Engineer.

Weight, 7,720 pounds. Built in 1868, by Hunneman & Co., Boston.

Wamesit Steam Fire Engine Company, No. 3.

Middle Street.....12 Members.

JOSEPH H. STACKPOLE, Foreman. EDWIN L. BROWN, Engineer.

Weight, 7,650 pounds. Built in 1866, by Hunneman & Co., Boston.

*Hose Carriages.**Mazeppa Hose Company, No. 4, Fayette Street.*

WILLIAM H. HALSTEAD, Foreman.....9 Members.

Wellman Hose Company, No. 5, Fourth Street.

GEORGE W. PATTEN, Foreman.....9 Members.

Mechanics' Hose Company, No. 7, Cross Street.

JOHN H. TUCKER, Foreman.....9 Members.

Excelsior Hose Company, No. 8, Central Street.

EDWARD CUNNINGHAM, Foreman.....9 Members.

*Hook and Ladder Carriages.**Franklin Hook and Ladder Company, No. 1, Middle Street.*

HORATIO B. DOWNS, Foreman.....16 Members.

George Hobson Hook and Ladder Company, No. 2, Middle Street.

HENRY W. BURTON, Foreman.....10 Members.

Protective Company, No. 1, Warren Street.

JERE. L. FLAGG, Foreman. 7 members, 2 being permanent men.

There is a volunteer Hose Company in Pawtucketville.

Operator of Fire-Alarm Telegraph.

GEORGE B. WHITNEY.....Engine House, Middle Street.

POLICE COURT.

NATHAN CROSBY.....	<i>Standing Justice.</i>
JOHN DAVIS	} <i>Special Justices.</i>
FREDERIC T. GREENHALGE	
SAMUEL P. HADLEY*.....	<i>Clerk.</i>

*Chosen at the Municipal Election, 1876, and every fifth year thereafter, by the people.
Gen. Stat., and Chap. 169, Acts of 1866.

SCHOOL COMMITTEE, 1881.

FREDERIC T. GREENHALGE, Chairman.

CHARLES H. ALLEN, Vice-Chairman.

CHARLES MORRILL, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

FREDERIC T. GREENHALGE, Mayor.....	}	<i>Ex</i>
CHARLES C. HUTCHINSON, President Common Council.....		<i>Officiis.</i>
Ward 1—JOHN A. SMITH.....	Term expires	1881
TIMOTHY H. BRENNAN.....	“	“ 1882
“ 2—HENRY J. MCCOY.....	“	“ 1881
DANIEL P. GALLOUPE.....	“	“ 1882
“ 3—MICHAEL SEXTON.....	“	“ 1881
JOHN J. GREEN.....	“	“ 1882
“ 4—CHARLES H. ALLEN.....	“	“ 1881
SOLON W. STEVENS.....	“	“ 1882
“ 5—JOHN J. COLTON.....	“	“ 1881
GEORGE C. OSGOOD.....	“	“ 1882
“ 6—SAMUEL A. CHASE.....	“	“ 1881
LEONARD HUNTRESS, JR.....	“	“ 1882

STANDING COMMITTEES.

On Accounts.—Messrs. Greenhalge, Hutchinson, Chase, Brennan, Smith.

On School-houses and Hygiene.—Messrs. Allen, Brennan, Huntress, Galloupe, Sexton.

On Teachers.—Messrs. Galloupe, Allen, Stevens, Colton, Green.

On Reports.—Messrs. Colton, Osgood, Green, Smith, Huntress.

- On Text-Books.*—Messrs. Stevens, Galloupe, Allen, Smith, Chase, Sexton.
- On Salaries.*—Messrs. Greenhalge, Huntress, McCoy, Galloupe, Green.
- On Penmanship and Drawing.*—Messrs. Huntress, Allen, Chase, Sexton, Green.
- On Music.*—Messrs. Stevens, Colton, Osgood, McCoy, Sexton.
- On Evening Schools.*—Messrs. Osgood, Brennan, McCoy, Colton, Smith.
- On Rules and Regulations.*—Messrs. Colton, Brennan, Osgood, Stevens, McCoy.
- On Parochial School in Belvidere.*—Messrs. Greenhalge, Green, Galloupe, Smith, Stevens, Osgood.

ASSIGNMENT OF SCHOOLS.

- The Mayor.*—High and Reform Schools.
- Mr. Hutchinson.*—Reform School.
- Mr. Brennan.*—Mann, Primaries 44, 22, 41, 43, 11, 26.
- Mr. Smith.*—Primaries 8, 12, 23, 29, 69, 10, 63, 73, 27, 42, Mixed No. 1.
- Mr. Galloupe.*—High, Varnum, Primaries 46, 47, 49, 75.
- Mr. McCoy.*—Green, Primaries 1, 3, 48, 55, 60, 61.
- Mr. Green.*—High, Reform, Colburn, Primaries 33, 56, 5, 6, 15, 30.
- Mr. Sexton.*—Primaries 13, 20, 57, 68, 64, 63, 59, 71, 72, 7, 21.
- Mr. Stevens.*—High, Edson, Primaries 24, 28, 77.
- Mr. Allen.*—High, Reform, Franklin, Intermediate 1, Primaries 17, 34, 50, 31, 76.
- Dr. Osgood.*—Reform, Primaries 2, 65, 40, 45, 36, 78, 40, 4, 54, 62, 67.
- Dr. Colton.*—High, Bartlett, Primaries 32, 58, Mixed No. 2.
- Dr. Huntress.*—High, Primaries 14, 25, 16, 37, 9, 51, 19, 39, 53, 78, 18.
- Mr. Chase.*—Moody, Primaries 35, 52.

REGULAR MEETINGS OF SCHOOL COMMITTEE, 1881.

January 31, February 28, March 28, April 25, May 30, June 27, July 25, August 29, September 26, October 31, November 28, December 26.

CHARLES MORRILL, Superintendent of Public Schools.

Office in the City Hall.

OFFICE HOURS—One hour after the forenoon session; and on Wednesday and Saturday afternoons, from 2 to 3 o'clock.

TRUANT COMMISSIONERS.

Office in the City Hall.

BICKFORD LANG.

WM. H. BERMINGHAM.

WARD OFFICERS, 1881.

Chosen annually at the Municipal Election held on the second Tuesday in December.

WARD ONE.

Warden... William Hart.
Clerk..... Law. J. McDonough.
Inspectors, James D. Sullivan,
 John A. Walsh,
 Thomas J. Duffy.

WARD TWO.

Warden... Robert L. Read.
Clerk..... David M. Lackie.
Inspectors, Frank J. Sherwood,
 Daniel P. Knowlton,
 John G. Hunt.

WARD THREE.

Warden... Charles J. Heeren.
Clerk..... John J. Donahoe.
Inspectors, John E. Sexton,
 John Teague,
 William Dacey.

WARD FOUR.

Warden... David Lane.
Clerk..... Charles E. Carter.
Inspectors, W. A. Dickinson,
 Charles F. Manahan,
 George A. Roper.

WARD FIVE.

Warden... Geo. W. Batchelder.
Clerk..... George E. Worthen.
Inspectors, Morton N. Peabody,
 Clarence G. Coburn,
 Walter J. Pettingell.

WARD SIX.

Warden... Andrew J. Hough.
Clerk..... Edward A. Coffin.
Inspectors, James Baxter,
 Robert J. Shepard,
 Charles L. Emerson.

INSPECTORS OF ELECTIONS.

Elected by the Mayor and Aldermen.

Terms expire November 1st in the year following their names.

WARD ONE.

Samuel Chapin, 1881.
Timothy H. Brennan, 1882.
George A. Scribner, 1883.

WARD TWO.

James F. Puffer, Jr., 1881.
Terrence F. Cassidy, 1882.
Charles A. Parker, 1883.

WARD THREE.

Oscar J. Gilbert, 1881.
Michael F. Maguire, 1882.
Harry Dunlap, 1883.

WARD FOUR.

Holland Streeter, 1881.
Irving K. Goodale, 1882.
William H. Blaney, 1883.

WARD FIVE.

James H. Carmichael, 1881.
H. Arthur Webster, 1882.
John H. Lynch, 1883.

WARD SIX.

John Doyle, 1881.
Arthur W. Harris, 1882.
Rinaldo H. Tyler, 1883.

POPULATION OF LOWELL.

Year.	Population.	Year.	Population.	Year.	Population.	Year.	Population.
1828	3,532	1837	18,010	1855	37,554	1875	49,688
1830	6,477	1840	20,981	1860	36,827	1880	59,485
1832	10,254	1844	25,163	1865	30,990	....	.....
1833	12,963	1846	29,127	1866	36,878	....	.....
1836	17,633	1850	33,383	1870	40,928	....	.....

POPULATION, LEGAL VOTERS, ETC., BY WARDS.

WARDS.	Popula- tion, 1880.	Legal Voters, 1875.	Registered Voters, Dec., 1880.			Vote for Mayor, '80.*	
			Males.	Females.	Total.	Green- halge.	Peabody.
1	11,716	1,617	1,463	8	1,471	770	206
2	8,992	1,528	1,545	28	1,573	898	174
3	10,093	1,484	1,601	20	1,621	900	168
4	8,863	1,554	1,525	13	1,538	670	316
5	10,905	1,377	1,425	37	1,462	787	203
6	8,916	1,501	1,533	50	1,583	929	212
Total	59,485	9,061	9,092	156	9,248	4,954	1,279

* For Mayor in 1880 there were 67 scattering votes.

CATALOGUE
OF THE
GOVERNMENT OF THE CITY OF LOWELL,
IN
CHRONOLOGICAL ORDER OF SERVICE,

FROM ITS INSTITUTION, 1836, TO 1880.

1836.**Mayor:****ELISHA BARTLETT.****Aldermen:**

William Austin, resigned Oct. 10,
Joseph Tapley, elected November,
Seth Ames,
Aaron Mansur,

Benjamin Walker,
Oliver M. Whipple,
Alexander Wright.

SAMUEL A. COBURN, *City Clerk.*

Common Council:

John Clark, *President*,
Henry J. Baxter,
Jonathan Bowers,
George Brownell,
James Cook,
David Dana,
Erastus Douglass,
Josiah B. French,
Cyril French,
Samuel Garland,
Horatio W. Hastings,
Horace Howard,

Stephen Mansur,
John Mixer,
Thomas Nesmith,
David Nourse,
Thomas Ordway,
James Russell,
John A. Savels,
Sidney Spalding,
Weld Spalding,
Jonathan Tyler,
Tappan Wentworth,
William Wyman.

GEORGE WOODWARD, *Clerk*, died. ALBERT LOCKE, elected.

1837.**Mayor:****ELISHA BARTLETT, †'36.****Aldermen:**

Seth Ames, *'36,
John Aiken,
Seth Chellis,

Joseph G. Kittredge,
Joshua Swan,
Alexander Wright, *'36.

SAMUEL A. COBURN, *City Clerk.*

Common Council:**WARD 1.**

Joshua Abbott,
James K. Fellows,
Jesse Phelps,
Walter Wright.

WARD 2.

William Fiske,
Thomas Nesmith, '36.
Josiah Osgood,
Joseph Tyler.

WARD 3.

Joseph M. Dodge,
Elisha Huntington, *President*,
William North,
Joseph Tapley.

WARD 4.

William Baker,
Elijah M. Read,
Charles H. Wilder,
William W. Wyman.

WARD 5.

George Brownell, '36,
Osgood Dane,
James Russell, '36.
Tappan Wentworth, '36.

WARD 6.

Andrew Bird,
Benjamin H. Gage,
Jona. T. P. Hunt,
Abram Tilton.

ALBERT LOCKE, *Clerk.*

The figures without other marks indicate membership of the Common Council those years.
† Mayor that year. * Alderman that year. ‡ President of Common Council that year.

1838.

Mayor:

LUTHER LAWRENCE.

Aldermen:

Benjamin F. French,
Charles L. Tilden,
Oliver M. Whipple, * '36,

George H. Carleton,
George Brownell, '36, '37,
Seth Chellis, * '37.

THOMAS ORDWAY, *City Clerk.***Common Council:**

WARD 1.

Jesse Phelps, '37,
Walter Wright, '37,
Eliphalet Brown,
Perez Fuller.

WARD 2.

William Fiske, '37.
Aaron H. Sherman,
William Upham,
Henry J. Baxter, '36.

WARD 3.

Thomas Hopkinson,
Elisha Huntington, † '37, *President*,
Horace Howard, '36,
John Mixer, '36.

WARD 4.

David Dana, '36,
Perley Hale,
Benjamin Walker, * '36,
William Baker, '37.

WARD 5.

Garret J. Bradt,
Benjamin Wilde,
Erastus Douglass, * '36,
Rufus Paul.

WARD 6.

Eli Cooper,
Thomas L. Randlett,
James L. Foot,
Calvin Goodspeed.

ALBERT LOCKE, *Clerk.*

1839.

Mayor:

LUTHER LAWRENCE. — [Died in April.]

ELISHA HUNTINGTON, † '37, † '38.

Aldermen:

Benjamin F. French, * '38,
John O. Green,
Charles L. Tilden, * '38,

George H. Carleton, * '38,
John Clark, † '36,
Oliver M. Whipple, * '36, * '38.

THOMAS ORDWAY, *City Clerk.***Common Council:**

WARD 1.

Walter Wright, '37, '38,
Harlin Pillsbury,
Eliphalet Brown, '38,
Forrest Eaton.

WARD 2.

Jonathan Tyler, '36,
John Nesmith,
Henry J. Baxter, '36, '38,
Jefferson Bancroft.

WARD 3.

Thomas Hopkinson, '38, *President*,
Jacob Robbins,
John G. Locke.

WARD 4.

Benjamin Walker, * '36, '38,
Samuel Horn,
Stephen Carleton,
Stephen Mansur, '36.

WARD 5.

Tappan Wentworth, '36, '37,
Lewis McIntire, died Feb., '40,
Benjamin Wilde, '38,
Garret J. Bradt, '38.

WARD 6.

Thomas L. Randlett, '38,
Joseph S. Holt,
John L. Fitts,
Daniel Knapp.

ALBERT LOCKE, *Clerk.*

1840.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39.

Aldermen:Jonathan Tyler, '36, '39,
John R. Adams,
Joseph Bedlow,Harlin Pillsbury, '39.
Seth Ames, *'36, *'37,
Stephen Mansur, '36, '39.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**Forrest Eaton, '39,
Sylvanus Adams,
Henry Patch,
R. M. Hutchinson.**WARD 2.**Jefferson Bancroft, '39,
John Nesmith, '39,
Joseph G. Kittredge, *'37,
Josiah Osgood, '37.**WARD 3.**Pelham W. Warren, *President*,
Abner W. Buttrick,
Asa Hall,
Samuel Burbank.**WARD 4.**Ferdinand Rodliff,
Ethan Burnap,
Edward F. Watson,
B. Walker, *'36, '38, '39, died Sept.**WARD 5.**Tappan Wentworth, '36, '37, '39,
Samuel W. Brown,
John J. Crane,
George Dane.**WARD 6.**Daniel Knapp, '39,
George L. Fitts, '39,
Joseph Battles,
Joshua Converse.ALBERT LOCKE, *Clerk*, died October. JOHN G. LOCKE, elected October.**1841.****Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40.

Aldermen:Seth Chellis, *'37, '38,
Jefferson Bancroft, '39, '40,
Cyril French, '36,George H. Carleton, *'38, *'39,
John R. Adams, *'40.
John Aiken, *'37.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**Henry Patch, '40,
George Bragdon,
John W. Holland,
Arnold Welch.**WARD 2.**William Fiske, '37, '38
Erasmus D. Leavitt,
Jonathan White,
Nathaniel Wilson.**WARD 3.**Samuel Burbank, '40,
Nathaniel Critchett,
Royal Southwick,
Edward Winslow.**WARD 4.**Ethan Burnap, '40,
William Livingston,
John Morrison,
Edward F. Watson, '40.**WARD 5.**Tappan Wentworth, '36, '37, '39,
'40, *President*,
Samuel W. Brown, '40,
John J. Crane, '40,
Phineas Whiting.**WARD 6.**Francis H. Bowers,
Isaac H. Cooper,
William Potter,
John Smith.JOHN G. LOCKE, *Clerk.*

1842.**Mayor:****NATHANIEL WRIGHT.****Aldermen:**

Nathaniel Thurston,
 Jefferson Bancroft, '39, '40, '41,
 Cyril French, '36, * '41,

William Livingston, '41,
 Ithamar A. Beard,
 John W. Graves.

THOMAS ORDWAY, *City Clerk.*

Common Council:**WARD 1.**

Jeremiah P. Jewett,
 John Hadley,
 James Townsend,
 Edward J. Payne.

WARD 2.

John Nesmith, '39, '40,
 Erasmus D. Leavitt, '41,
 Joseph W. Mansur, *President*,
 James Hopkins.

WARD 3.

Nathaniel Critchett, '41,
 Ira Spalding,
 John Mead,
 Asa W. Willoughby.

WARD 4.

John Morrison, '41,
 William Carlton,
 Oliver March,
 Josiah B. French, '36.

WARD 5.

James Patterson,
 Isaac Appleton,
 Josiah Seavey,
 Roswell Douglass.

WARD 6.

James Russell, '36, '37,
 Jonathan Kendall,
 Varnum A. Shed,
 Isaac N. Fitts.

JOHN G. LOCKE, *Clerk.*

1843.**Mayor:****NATHANIEL WRIGHT, †'42.****Aldermen:**

Harlin Pillsbury, '39, * '40, res'd June,
 Henry C. Johnson,
 Cyril French, '36, * '41, * '42,

S. Spalding, '36, resigned in June.
 Joseph Griffin,
 Charles L. Tilden, * '38, '39.

THOMAS ORDWAY, *City Clerk.*

Common Council:**WARD 1.**

Daniel Bixby,
 Edward J. Payne, '42,
 Hugh Cummiskey,
 Walter Wright, '37, '38, '39.

WARD 2.

Henry J. Baxter, '36, '38, '39,
 John P. Simonds,
 Pliny Lawton,
 Ben Osgood.

WARD 3.

John Mead, '42,
 Willard Brown,
 Ira Spalding, '42,
 Benjamin J. Gerrish.

WARD 4.

Otis Allen,
 Alfred Gilman,
 Oliver March, '42, *President*,
 William Carlton, '42.

WARD 5.

James Patterson, '42,
 David Bradt,
 John L. Tripp,
 Benjamin F. Holden,

WARD 6.

John B. McAlvin,
 Cyrus Battles,
 Sewall G. Mack,
 Charles F. Mitchell.

JOHN G. LOCKE, *Clerk.*

1844.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41.

Aldermen:Henry Smith,
Selwin Bancroft,
O. M. Whipple, *'36, *'38, *'39,Edward F. Watson, '40, '41,
Joseph Griffin, *'43,
John Wright.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**Forrest Eaton, '39, '40,
Gilman N. Nichols,
Hugh Cumiskey, '43,
David Healey.**WARD 2.**John P. Simonds, '43,
Ben Osgood, '43,
Amos Merriam,
John Clark, †'36, *'39, *President.***WARD 3.**Charles B. Coburn,
George Choate,
Isaac Scripture,
William C. Gray.**WARD 4.**Asa Wetherbee,
Abner W. Buttrick, '40,
Horatio G. F. Corliss,
Charles H. Wilder, '37.**WARD 5.**John L. Tripp, '43,
David Bradt, '43,
John Wright,
Nathaniel Wright, Jr.**WARD 6.**Sewall G. Mack, '43,
James Russell, '36, '37, '42,
Jonathan Kendall, '42,
Gilman Gale.JOHN G. LOCKE, *Clerk.***1845.****Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44.

Aldermen:Henry Smith, *'44,
Selwin Bancroft, *'44,
O. M. Whipple, *'36, *'38, *'39, *'44,Edward F. Watson, '40, '41, *'44,
John C. Dalton,
Daniel Knapp, '39.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**Gilman N. Nichols, '39,
Danforth P. Brigham,
Jonathan Adams,
Willard C. Welch.**WARD 2.**John P. Simonds, '43, '44,
Daniel Balch,
William Brown,
Daniel S. Richardson, *President.***WARD 3.**Isaac Scripture, '44,
William C. Gray, '44,
George Choate, '44,
Hapgood Wright.**WARD 4.**Abner W. Buttrick, '40, '44,
Asa Wetherbee, '44,
Charles H. Wilder, '37, '44,
Josiah Sawtell.**WARD 5.**Nathaniel Wright, Jr., '44,
Amos Hyde,
Edward Sherman,
James Fenno.**WARD 6.**Gilman Gale, '44,
John B. McAlvin, '43,
Samuel Fay, Jr.,
Lorenzo P. Wright.JOHN G. LOCKE, *Clerk.*

1846.**Mayor:**

JEFFERSON BANCROFT, '39, '40, *'41, *'42.

Aldermen:

Henry Smith, *'44, *'45,
 Selwin Bancroft, '44, *'45,
 William C. Gray, '44, '45,
 Joseph Butterfield,

John C. Dalton, '45,
 D. Knapp, '39, *'45, resigned July,
 Isaac Cooper, '41, elected August.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

Gilman N. Nichols, '39, '45,
 Danforth P. Brigham, '45,
 Willard C. Welch, '45,
 Thomas S. Hutchinson.

WARD 2.

Daniel Balch, '45,
 William Brown, '45,
 Daniel S. Richardson, †'45, *President*,
 Zadock Rogers.

WARD 3.

Hapgood Wright, '45,
 Isaac Farrington,
 Joel Powers,
 Franklin Mead.

WARD 4.

Josiah Sawtell, '45,
 Solon Stevens,
 David J. Moody,
 William Fletcher.

WARD 5.

Amos Hyde, '45,
 Horatio G. F. Corliss, '44,
 Jonathan Bowers, '36,
 Charles M. Short.

WARD 6.

Lorenzo P. Wright, '45,
 John L. Fitts, '39, '40,
 Lewis Packard,
 Columbus J. Hubbard.

JOHN G. LOCKE, *Clerk.***1847.****Mayor:**

JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46.

Aldermen:

George Bragdon,
 Joseph Butterfield, *'46,
 Linus Child,
 James Fenno, '45,

Elisha Huntington, †'37, †'38,
 †'39, †'40, †'41, †'44, †'45,
 Sewall G. Mack, '43, '44,
 Stephen Mansur, '36, '39, *'40,
 Josiah Sawtell, '45, '46.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

William Conihe,
 James C. Crombie,
 David S. Bachelder,
 Jesse Huse.

WARD 2.

Samuel W. Brown, '40, '41,
 Hannibal Powers,
 William Newman,
 Otis L. Allen.

WARD 3.

Joel Powers, '46,
 Franklin Mead, '46,
 Isaac Farrington, '46,
 Samuel G. Davis.

WARD 4.

Joel Adams, *President*,
 Horatio Fletcher,
 Solon Stevens, '46,
 Stephen A. Coburn.

WARD 5.

Ignatius Tyler,
 Edward C. Johnson,
 Elihu Gates,
 Charles M. Short, '46.

WARD 6.

Thomas Wentworth,
 Isaac N. Parker,
 John R. Southwick,
 Isaiah Morse.

JOHN G. LOCKE, *Clerk.*

1848.**Mayor:**

JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46, †'47.

Aldermen:

David Dana, '36, '38,
 Erastus Douglass, '36, '38,
 Jacob Graves, resigned in June,
 William Newman, '47,

Gilman N. Nichols, '39, '45, '46.
 Daniel S. Richardson, †'45, †'46;
 Josiah Sawtell, '45, '46, *'47,
 O. M. Whipple, *'36, *'38, *'39, *'45.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

William Conihe, '47,
 James C. Crombie, '47,
 Jesse Huse, '47,
 Gerry Wilson.

WARD 2.

Otis L. Allen, '47,
 William H. Flagg,
 John Nesmith, '39, '40, '42,
 Hannibal Powers, '47.

WARD 3.

Alfred Gilman, '43,
 Thomas Hopkinson, '38, '39, *President*,
 Ransom Reed,
 Nathaniel Critchett, '41, '42.

WARD 4.

John Avery,
 Otis Allen, '43,
 Abiel Rolfe,
 Horace Howard, '36, '38.

WARD 5.

Ignatius Tyler, '47,
 Elihu Gates, '47,
 Edward C. Johnson, '47,
 Charles M. Short, '46, '47.

WARD 6.

Thomas Wentworth, '47,
 Isaac N. Parker, '47,
 Jeremiah M. Currier,
 Horace Parmenter.

JOHN G. LOCKE, *Clerk.***1849.****Mayor:**

JOSIAH B. FRENCH, '36, '42.

Aldermen:

James B. Francis,
 Cyril French, '36, *'41, *'42, *'43,
 James H. B. Ayer,
 Daniel D. Crombie,

Daniel Carter,
 George Brownell, '36, '37, *'38,
 Artemas L. Brooks,
 Joseph Bedlow, *'40.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

Jesse Huse, '47, '48, resigned Feb.,
 William A. Richardson, elected Mar.,
 Gerry Wilson, '48,
 John W. Smith,
 Alfred S. Saunders.

WARD 2.

William H. Flagg, '48,
 Ivers Taylor,
 Isaac S. Morse, resigned,
 Ambrose Lawrence.

WARD 3.

Alfred Gilman, '43, '48,
 Elisha Davis,
 James Dinsmoor,
 Andrew C. Wheelock.

WARD 4.

Nathaniel B. Favor,
 Caleb Crosby,
 Ezekiel Wright,
 Waldo A. Fisher.

WARD 5.

Maynard Bragg,
 Joshua Decatur,
 Abram T. Melvin,
 W. W. Morse.

WARD 6.

William Lamson, Jr.,
 Jeremiah M. Currier, '48,
 George S. Wright,
 John Aiken, *'37, *'41, *President.*

GEORGE A. BUTTERFIELD, *Clerk.*

1850.**Mayor:****JOSIAH B. FRENCH**, '36, '42, †'49.**Aldermen:**James H. B. Ayer, *'49,
Joseph Bedlow, *'40, *'49,
Daniel D. Crombie, *'49,
James B. Francis, *'49,Philip Hardy,
John Mixer, '36, '38,
Josiah G. Peabody,
James Townsend, '42.THOMAS ORDWAY, *City Clerk*.**Common Council:****WARD 1.**John W. Smith, '49,
Daniel R. Kimball,
James Watson,
Jonathan Smothers.**WARD 2.**Ivers Taylor, '49, *President*,
George Gardner,
Samuel Lawrence, 2d,
Samuel J. Varney.**WARD 3.**Jonathan Page,
John Tripp,
Fordyce Coburn,
Joshua Merrill.**WARD 4.**Abner W. Buttrick, '40, '44, '45,
Caleb Crosby, '49,
Benjamin Goddard,
Nathaniel B. Favor, '49.**WARD 5.**George P. Elliot,
William Fiske, '37, '38, '41,
George W. Worthen,
Maynard Bragg, '49.**WARD 6.**Albert Mallard,
Stephen P. Sargent,
George S. Wright, '49,
Wm. Lamson, Jr., '49, res'd May.GEO. A. BUTTERFIELD, *Clerk*, res'd May. WM. LAMSON, JR., elected May.**1851.****Mayor:****JAMES H. B. AYER**, *'49, *'50.**Aldermen:**William Fiske, '37, '38, '41, '50,
Ambrose Lawrence, '49,
James Townsend, '42, *'50,
Philip Hardy, *'50,William North, '37,
Abiel Rolfe, '48,
Lucius A. Cutler,
Joshua Converse, '40.THOMAS ORDWAY, *City Clerk*.**Common Council:****WARD 1.**James Watson, '50,
Jonathan Smothers, '50,
Charles B. Coburn, '44,
Stephen Moar.**WARD 2.**Linus Child, *'47,
George Gardner, '50, *President*,
Samuel J. Varney, '50,
Zachariah B. Caverly.**WARD 3.**Fordyce Coburn, '50,
William Twichell,
Darius C. Brown,
Benjamin C. Sargeant.**WARD 4.**Benjamin Goddard, '50,
Richard Dennis,
Holland Streeter,
Solomon D. Emerson.**WARD 5.**George P. Elliot, '50,
Edward Fifield,
John N. Ford,
Theodore H. Sweetser.**WARD 6.**George W. Worthen, '50,
George W. Jones, died Sept.,
Stephen P. Sargent, '50,
Albert Mallard, '50.WILLIAM LAMSON, JR., *Clerk*.

1852.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47.

Aldermen:Joseph Bedlow, *'40, *'49, *'50,
Joseph M. Bullens,
Samuel Burbank, '40, '41,
Joseph B. V. Coburn,Wm. Fiske, '37, '38, '41, '50, *'51,
William North, '37, *'51,
Alpha Stevens,
Samuel J. Varney, '50, '51.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**Rufus Rogers,
John C. Smith,
Jeremiah Clark,
Paul Hill.**WARD 2.**Paul Perkins,
Milton Bonney,
William Hovey,
Zachariah B. Caverly, '51.**WARD 3.**Darius C. Brown, '51,
William Twichell, '51,
Benjamin C. Sargeant, '51, *President*,
Michael B. Caswell.**WARD 4.**Holland Streeter, '51,
Elbridge Livingston,
Abram French,
Willard Minot.**WARD 5.**Edward Fifield, '51,
Phineas Whiting, '41,
George W. Patterson,
Jonathan Kendall, '42, '44.**WARD 6.**Leonard W. Jaquith,
Seth Pooler,
Caleb G. Weaver,
William C. Parker.WILLIAM LAMSON, JR., *Clerk.***1853.****Mayor:**

SEWALL G. MACK, '43, '44, *'47.

Aldermen:Elisha Huntington, †'37, †'38, †'39,
†'40, †'41, †'44, †'45, *'47, †'52,
Samuel K. Hutchinson,
Stephen Mansur, '36, '39, *'40, *'47,
Joseph B. V. Coburn, *'52,Ira Spalding, '42, '43,
Joseph M. Bullens, *'52,
Alpha Stevens, *'52,
Joseph White.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**Rufus Rogers, '52,
John C. Smith, '52,
Marcus A. Thomas,
James Cook, '36.**WARD 2.**Paul Perkins, '52,
Milton Bonney, '52,
George G. Bumpus,
George W. Stanley.**WARD 3.**Michael B. Caswell, '52,
Calvin Philbrick,
Leonard Brown,
Henry H. Wilder.**WARD 4.**Abram French, '52,
Henry C. Howe,
Joseph S. Grush,
Samuel K. Pickering.**WARD 5.**George W. Patterson, '52,
Wm. A. Richardson, '49, *Presid't.*
Patrick Conlan,
Jonathan Bowers.**WARD 6.**Caleb G. Weaver, '52,
William C. Parker, '52,
George F. Woods,
C. F. Blanchard.WILLIAM LAMSON, JR., *Clerk.*

1854.**Mayor:**

SEWALL G. MACK, '43, '44, *'47, †'53.

Aldermen:

Elisha Huntington, †'37, †'38, †'39, †'40,
 †'41, †'44, †'45, *'47, †'52, *'53,
 J. B. V. Coburn, *'52, *'53, res'd Jan.,
 Samuel K. Hutchinson, *'53,
 Ira Spalding, '42, '43, *'53.

Joseph White, *'53,
 Horatio Fletcher, '47,
 C. F. Blanchard, '53,
 Charles Sperry.

WILLIAM LAMSON, JR., *City Clerk.***Common Council:****WARD 1.**

John C. Smith, '52, '53,
 Paul Hill, '52,
 Marcus A. Thomas, '53,
 Thomas Lennon.

WARD 2.

George W. Stanley, '53,
 William H. Gage,
 Amos A. Taylor,
 William H. Bradley.

WARD 3.

Calvin Philbrick, '53,
 Leonard Brown, '53, declined,
 Darius C. Brown, '51, '52, elected,
 Henry H. Wilder, '53,
 Peter O. C. Frawley.

WARD 4.

Henry C. Howe, '53,
 Joseph S. Grush, '53,
 Samuel K. Pickering, '53,
 Hubbard Wilson.

WARD 5.

William A. Richardson, '49, †'53,
President,
 Jonathan Bowers, '53,
 Patrick Conlan, '53,
 John C. Woodward.

WARD 6.

George F. Woods, '53,
 Charles S. Eastman,
 Levi H. Straw,
 William P. Webster.

LEONARD BROWN, *Clerk.***1855.****Mayor:**

AMBROSE LAWRENCE, '49, '51.

Aldermen:

Wm. Fiske, '37, '38, '41, '50, *'51, *'52,
 Artemas L. Brooks, *'49,
 Daniel Woodward,
 Lorenzo G. Howe,

Andrew T. Nute,
 Abner Frost,
 William S. Johnston,
 Shadrach R. Brackett.

WILLIAM LAMSON, JR., *City Clerk.***Common Council:****WARD 1.**

Maynard Bragg, '49, '50,
 Aaron B. Young,
 Augustus B. Roby,
 George L. Harris.

WARD 2.

William G. Morse,
 George K. Paul,
 Mark H. Cook,
 Joseph A. Patten.

WARD 3.

Alfred Gilman, '43, '48, '49, *President,*
 Daniel Hurd,
 Theodore Warren,
 Stephen K. Fielding.

WARD 4.

Joshua W. Daniels,
 John Bennett,
 Alanson Folsom,
 Francis H. Nourse.

WARD 5.

John C. Woodward, '54,
 Stephen Bartlett,
 Jonathan Johnson,
 Oliver P. Rand.

WARD 6.

Levi H. Straw, '54,
 William T. Whitten,
 Lucien P. Stacy,
 James M. Moore.

LEONARD BROWN, *Clerk.*

1856.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44,
†'45, *'47, †'52, *'53, *'54.

Aldermen:

Edward Tuck,
Samuel Burbank, '40, '41, *'52,
Charles B. Coburn, '44,
William P. Webster, '54,
Hapgood Wright, '45, '46,

Charles H. Wilder, '37, '44, '45,
O. J. Conant, resigned in March,
James H. Rand,
Jonathan Johnson, elected in
June.

WILLIAM LAMSON, JR., *City Clerk.*

Common Council:**WARD 1.**

Enos O. Kingsley,
Abiel Pevey,
David M. Collins,
Marshall E. Thompson.

WARD 2.

Isaac Hinckley,
Seth Gage,
Peter Flanders, Jr.,
Leonard F. Jewell.

WARD 3.

David Rogers,
Benj. C. Sargeant, '51, †'52, *President*,
Henry H. Carroll,
Peter Powers.

WARD 4.

Francis H. Nourse, '55,
Alden B. Buttrick,
Holland Streeter, '51, '52,
James Sands.

WARD 5.

Frederick Holton,
Isaac Place,
Albert Wheeler,
Abiel Rolfe, '48, *'51.

WARD 6.

Eliphalet Hills,
Jonathan P. Folsom,
James K. Fellows, '37,
John K. Chase.

JAMES J. MAGUIRE, *Clerk.*

1857.**Mayor:**

STEPHEN MANSUR, '36, '39, *'40, *'47, *'53.

Aldermen:

Andrew T. Nute, *'55,
John C. Woodward, '54, '55,
Jonathan Smothers, '50, '51,
Samuel W. Stickney,

John B. Tuttle,
Francis H. Nourse, '55, '56,
Jonathan Johnson, '55, *'56,
John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., *City Clerk.*

Common Council:**WARD 1.**

Abiel Pevey,
Stephen T. Stanley,
Charles A. Welch,
George F. Scribner.

WARD 2.

William G. Morse, '55,
William D. Vinall,
Temple Tebbetts,
James M. Howe.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
David Rogers, '56,
Henry H. Carroll, '56,
Nathan Allen.

WARD 4.

Caleb Crosby, '49, '50,
John F. Howe,
John C. Jepson,
Alanson Nichols.

WARD 5.

Frederick Holton, '56, *President*,
William H. Wiggins,
William Goodale,
Charles Hubbard.

WARD 6.

Erastus Boyden,
Jonathan Kimball,
Robert J. Garrett,
William Nichols.

HENRY A. LORD, *Clerk.*

1858.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44,
†'45, *'47, †'52, *'53, *'54, †'56.

Aldermen:

Sewall G. Mack, '43, '44, *'47, †'53, †'54,
Samuel W. Stickney, *'57,
Abiel Pevey, '56, '57,
Jeremiah P. Jewett, '42,

Joseph M. Dodge, '37,
Harvey Silver,
Albert Wheeler, '56,
Edwin A. Alger.

JOHN H. McALVIN, *City Clerk.*

Common Council:**WARD 1.**

Charles Wilkins,
John M. Maynard,
John E. Webb,
William Barnard.

WARD 2.

Edward Tuck, *'56,
William P. Webster, '54, *'56,
Andrew Blood,
William F. Salmon.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
'57, *President*,
Hanover Dickey,
Joseph A. Brabrook,
Benjamin S. Butterworth.

WARD 4.

Enoch P. Young,
Zephaniah Goward,
Jesse Blake,
John F. Howe, '57.

WARD 5.

Willard Dudley,
Samuel T. Manahan,
Isaac Page,
John Avery, 2d.

WARD 6.

William Nichols, '57,
Alpha B. Farr, resigned in Jan.,
Leonard Brown, '53, '54, elec'd Feb.
Erastus Boyden, '57,
James H. Rand, *'56, resign'd May,
Eben'r Burgess, elected in June.

GEORGE GARDNER, *Clerk.*

1859.**Mayor:**

JAMES COOK, '36, '53.

Aldermen:

Lorenzo G. Howe, *'55,
Samuel J. Varney, '50, '51, *'52,
Paul Hill, '52, '54,
Ambrose Lawrence, '49, '51, †'55, re-
signed in April,
Darius C. Brown, '51, '52,

John F. Howe, '57, '58,
Joshua Converse, '40, *'51, re'd Apr.
J. P. Folsom, '56, resign'd in April,
Edward Tuck, *'56, '58, elect'd May,
Sam'l T. Manahan, '58, elec'd May,
Jonathan Ladd, elected in May.

JOHN H. McALVIN, *City Clerk.*

Common Council:**WARD 1.**

John E. Webb, '58,
Charles Wilkins, '58,
William Barnard, '58,
William D. Blanchard.

WARD 2.

W. P. Webster, '54, *'56, '58, *President*,
William F. Salmon, '58,
James M. Howe, '57,
David Nichols.

WARD 3.

George Hobson,
Asahel D. Puffer,
John Willoughby,
Benjamin S. Butterworth, '58.

WARD 4.

Caleb Crosby, '49, '50, '57,
Jesse Blake, '58,
George W. Partridge,
George W. Young.

WARD 5.

Horatio G. F. Corliss, '44, '46,
Luther B. Morse,
Josiah G. Peabody, *'50,
William Goodale, '57.

WARD 6.

Charles A. Stott,
Levi Sprague,
Ebenezer Burgess, '58,
Leonard Brown, '53, '54, '58.

GEORGE GARDNER, *Clerk.*

1860.**Mayor:**

BENJAMIN C. SARGEANT, '51, †'52, †'56, '57, †'58.

Aldermen:

Edward F. Watson, '40, '41, *'44, *'45,
 Lorenzo G. Howe, *'55, *'59,
 James Watson, '50, '51,
 William G. Morse, '55, '57,

Henry H. Wilder, '53, '54,
 Abner Frost, *'55, '59,
 Samuel T. Manahan, '58, *'59,
 William S. Gardner.

JOHN H. McALVIN, *City Clerk.***Common Council:****WARD 1.**

Benjamin S. Ireson,
 Enoch Quimby,
 John P. Slocum,
 Amos H. Foster.

WARD 2.

Henry P. Clough,
 Alfred S. Saunders, '49,
 Wm. F. Salmon, '58, '59, *President*,
 Joseph L. Sargent.

WARD 3.

George Hobson, '59,
 Josiah B. Fielding,
 Henry P. Perkins,
 Hocum Hosford.

WARD 4.

George W. Partridge, '59,
 George W. Young, '59,
 Morrill M. Bohonan,
 Caleb Crosby, '49, '50, '57, '59.

WARD 5.

Josiah G. Peabody, *'50, '59,
 Sullivan L. Ward,
 George F. Morey,
 William H. Lamson.

WARD 6.

William Nichols, '57, '58,
 Samuel T. Lancaster,
 Charles A. Stott, '59,
 Foster Nowell.

GEORGE GARDNER, *Clerk.***1861.****Mayor:**

BENJAMIN C. SARGEANT, '51, †'52, †'56, '57, †'58, †'60.

Aldermen:

Samuel T. Manahan, '58, *'59, *'60,
 Jonathan P. Folsom, '56, *'59,
 James Watson, '50, '51, *'60,
 William G. Morse, '55, '57, *'60,
 Hocum Hosford, '60,

Aldis L. Waite,
 David Whitney, declined accept-
 ance,
 Sager Ashworth, elected in May,
 William S. Gardner, *'60.

JOHN H. McALVIN, *City Clerk.***Common Council:****WARD 1.**

Frank E. Jewett,
 M. Gilbert Perkins,
 Jacob Baron,
 William D. Blanchard, '59.

WARD 2.

Alfred S. Saunders, '49, '60,
 Joseph L. Sargent, '60,
 Henry P. Clough, '60,
 Henry S. Orange.

WARD 3.

William L. North, *President*,
 George W. Norris,
 Henry P. Perkins, '60,
 James G. Morrison.

WARD 4.

Joseph Cater,
 Joseph B. Keyes,
 Morrill M. Bohonan, '60,
 Abel M. Ayer.

WARD 5.

Sullivan L. Ward, '60,
 Samuel Beck,
 William H. Parker,
 George F. Morey, '60.

WARD 6.

Samuel T. Lancaster, '60,
 Foster Nowell, '60,
 Elon A. Sanborn,
 George E. Dana.

GEORGE GARDNER, *Clerk.*

1862.**Mayor:****HOCUM HOSFORD**, '60, * '61.**Aldermen:**

Mertoun C. Bryant,
 Edwin A. Alger, * '58,
 James B. Francis, * '49, * '50,
 William A. Burke,

Isaac F. Scripture,
 Aldis L. Waite, * '61,
 Albert Wheeler, '56, * '58,
 Jona. P. Folsom, '56, * '59, * '61.

JOHN H. McALVIN, *City Clerk*.**Common Council:****WARD 1.**

Amos D. Wright,
 Frank E. Jewett, '61,
 Horatio G. Burgess,
 Charles F. Hard.

WARD 2.

Benedict O. Carpenter,
 William T. McNeill,
 Lorenzo G. Howe, * '55, * '58, * '60,
 Henry S. Orange, '61.

WARD 3.

George W. Norris, '61,
 Edmund D. Fletcher,
 Everett W. French,
 John Quinn.

WARD 4.

Joseph B. Keyes, '61,
 George Runels,
 John Pettingell,
 Hubbard Willson, '54.

WARD 5.

Rollin C. Downs,
 Albert Mallard, '50, '51,
 Edward Fifield, '51, '52,
 Cleveland J. Cheney.

WARD 6.

Geo. F. Richardson, *President*,
 Albion J. Dudley,
 Elon A. Sanborn, '61,
 Frederick Frye.

GEORGE GARDNER, *Clerk*.**1863.****Mayor:****HOCUM HOSFORD**, '60, * '61, † '62.**Aldermen:**

James B. Francis, * '49, * '50, * '62,
 Edwin A. Alger, * '58, * '62,
 Abiel Pevey, '56, '57, * '58,
 William A. Burke, * '62,

Isaac F. Scripture, * '62,
 Otis Allen, '43, '48,
 Albert Wheeler, '56, * '58, * '62,
 William Nichols, '57, '58, '60.

JOHN H. McALVIN, *City Clerk*.**Common Council:****WARD 1.**

Charles F. Hard, '62,
 Amos D. Wright, '62,
 John Cosgrove,
 William A. Wright.

WARD 2.

George F. Sawtell,
 Henry S. Orange, '61, '62,
 Hugh McEvoy,
 Nathaniel Stearns.

WARD 3.

Everett W. French, '62,
 Fordyce Coburn, '50, '51,
 Edmund D. Fletcher, '62,
 John Quinn, '62.

WARD 4.

Atwell F. Wright,
 Josiah Gates,
 William Stafford,
 John McCann.

WARD 5.

James C. Ayer,
 Charles W. Saunders,
 Cyrus H. Latham,
 John E. Downs.

WARD 6.

Geo. F. Richardson, † '62, *Pres.*,
 Albion J. Dudley, '62,
 Benedict O. Carpenter, '62,
 Frederick Frye, '62.

GEORGE GARDNER, *Clerk*.

1864.**Mayor:**

HOCUM HOSFORD, '60, *'61, †'62, †'63.

Aldermen:

William S. Southworth,
James B. Francis, *'49, *'50, *'62, *'63,
Dana B. Gove,
William T. McNeill, '62,

George W. Norris, '61, '62,
George Runels, '62,
Cyrus H. Latham, '63,
George F. Richardson, †'62, †'63.

JOHN H. McALVIN, *City Clerk.***Common Council:****WARD 1.**

Alden B. Watson,
Lewis L. Perrin,
Frederick S. Tukey,
John Cosgrove, '63.

WARD 2.

George Ripley, *President*,
Andrew F. Jewett,
Artemas S. Young,
Hoyt W. Hilton.

WARD 3.

Samuel N. Wood,
Charles W. Dodge,
Joseph S. Pollard,
James G. Morrison, '61.

WARD 4.

Atwell F. Wright, '63,
Daniel Churchill,
William W. Sherman,
Francis Jewett.

WARD 5.

John E. Downs, '63,
Thos. G. Gerrish, res'd June 14,
Charles Hubbard, '57,
Cleveland J. Cheney, '62.

WARD 6.

Levi Sprague, '59,
Tobias L. P. Lamson,
Addison Putnam,
Albion J. Dudley, '62, '63.

GEORGE GARDNER, *Clerk.***1865.****Mayor:**

JOSIAH G. PEABODY, *'50, '59, '60.

Aldermen:

Ew'd F. Watson, '40, '41, *'44, *'45, *'60,
George W. Norris, '61, '62, *'64,
Dana B. Gove, *'64,
William T. McNeill, '62, *'64,

Henry H. Wilder, '53, '54, *'60,
Josiah Gates, '63,
Cyrus H. Latham, '63, *'64,
William Brown, '45, '46.

JOHN H. McALVIN, *City Clerk.***Common Council:****WARD 1.**

Alden B. Watson, '64,
Lewis L. Perrin, '64,
George N. Osgood,
John R. Southwick, '47.

WARD 2.

George Ripley, †'64, *President*,
Andrew F. Jewett, '64,
Julian V. Keyes,
Chester W. Rugg.

WARD 3.

Joseph S. Pollard, '64,
Charles W. Dodge, '64,
Edward C. Rice,
Frederick T. North.

WARD 4.

Francis Jewett, '64,
Benjamin Walker,
Benjamin L. Googins,
John Pearson.

WARD 5.

Charles Hubbard, '57, '64,
James Kent,
Simeon D. Osterhoudt,
James Foster.

WARD 6.

Tobias L. P. Lamson, '64,
Luke C. Dodge,
Gustavus A. Gerry,
James M. Moore, '55.

GEORGE GARDNER, *Clerk.*

1866.**Mayor:**

JOSIAH G. PEABODY, *'50, '59, '60, †'65.

Aldermen:

Samuel A. Brown,
Albert B. Plimpton,
John R. Southwick, '47, '65,
Joseph L. Sargent, '60, '61,

Charles W. Dodge, '64, '65,
Josiah Gates, '63, *'65,
Henry M. Hooke,
Albion J. Dudley, '62, '63, '64.

JOHN H. McALVIN, *City Clerk.*

Common Council:**WARD 1.**

William A. Hodge,
William A. Wright, '63,
Jacob Baron, '61,
Rollin C. Downs, '62.

WARD 2.

Andrew F. Jewett, '64, '65,
George H. Whitmore,
Julian V. Keyes, '65,
Chester W. Rugg, '65.

WARD 3.

Edward C. Rice, '65,
Frederick T. North, '65,
James N. Pinkham,
Oliver W. Smith.

WARD 4.

Benjamin L. Googins, '65,
Alfred Scott,
Thomas F. Burgess,
Benjamin Walker, '65.

WARD 5.

Robert H. Butcher,
John T. Lee,
George L. Huntoon,
Jonathan Johnson, '55, *'56, *'57.

WARD 6.

Gustavus A. Gerry, '65, *President*,
Luke C. Dodge, '65,
Charles A. Kimball,
Alfred H. Chase.

GEORGE GARDNER, *Clerk.*

1867.**Mayor:**

GEORGE F. RICHARDSON, †'62, †'63, *'64.

Aldermen:

Charles B. Coburn, '44, '51, *'56,
Hocum Hosford, 60, *'61, †'62, †'63, †'64,
John R. Southwick, '47, '65, *'66,
Joseph L. Sargent, 60, '61, *'66,
Edward C. Rice, '65, '66,

Abner W. Buttrick, '40, '44, '45, '50;
died June 29, '67.
Wm. E. Livingston, el. Sept. 9, '67.
Wm. H. Parker, '61,
Albion J. Dudley, '62, '63, '64, *'66.

JOHN H. McALVIN, *City Clerk.*

Common Council:**WARD 1.**

John Shepard,
Calvin Sawtell,
Foster Wilson,
M. Gilbert Perkins, '61.

WARD 2.

Gustavus A. Gerry, '65, †'66, *President*,
Ruel J. Walker,
William Dobbins,
Silas Tyler, Jr.

WARD 3.

Jona. P. Folsom, '56, *'59, *'61, *'62,
Frederick T. North, '65, '66,
Samuel D. Prescott,
Nathan M. Wright.

WARD 4.

John B. Hunt,
John Q. A. Hubbard,
Alfred Scott, '66,
Thomas F. Burgess, '66.

WARD 5.

George L. Huntoon, '66,
George S. Cheney,
James Foster, '65,
John T. Lee, '66.

WARD 6.

Alfred H. Chase, '66,
James Lawton,
John N. Peirce, Jr.,
Foster Nowell, '60, '61, resigned
May 14, '67.
Wm. Kittredge, elected Sept. 9, '67.

GEORGE GARDNER, *Clerk.*

1868.**Mayor:**

GEORGE F. RICHARDSON, †'62, †'63, *'64, †'67.

Aldermen:

Charles B. Coburn, '44, '51, *'56, *'67.
 Francis Jewett, '64, '65,
 John M. Pevey, resigned in July.
 Charles L. Hildreth, elected in Sept.
 Silas Tyler, Jr., '67.

Edward C. Rice, '65, '66, *'67,
 William E. Livingston, *'67,
 Frederic Frye, '62, '63,
 Albion J. Dudley, '62, '63, '64, *'66,
 *'67.

JOHN H. McALVIN, *City Clerk.***Common Council:****WARD 1.**

Calvin Sawtell, '67,
 John Shepard, '67,
 John F. Merrill,
 Frederic T. Greenhalge.

WARD 2.

Francis D. Munn,
 Joseph A. Patten, '55,
 Ruel J. Walker, '67,
 Henry S. Orange, '61, '62, '63.

WARD 3.

George W. Badger,
 Samuel D. Prescott, '67,
 William Walker,
 Albert A. Haggett.

WARD 4.

William H. Anderson,
 John Q. A. Hubbard, '67,
 Charles T. Crane,
 John B. Hunt, '67.

WARD 5.

Edwin Lamson,
 George S. Cheney, '67.
 William Kelley,
 Ethan N. Spencer.

WARD 6.

John N. Peirce, Jr., '67,
 James Lawton, '67,
 Francis Brown,
 Alfred H. Chase, '66, '67, *President.*

GEORGE GARDNER, *Clerk.***1869.****Mayor:**

JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67.

Aldermen:

Francis Jewett, '64, '65, *'68,
 Henry H. Wilder, '53, '54, *'60, *'65,
 Charles L. Hildreth, *'68,
 Cyrus H. Latham, '63, *'64, *'65.

Hapgood Wright, '45, '46, *'56,
 John Q. A. Hubbard, '67, '68,
 George S. Cheney, '67, '68,
 Charles A. Stott, '59, '60.

JOHN H. McALVIN, *City Clerk.* Resigned March 15, 1869.SAMUEL A. McPHETRES, *City Clerk.* Elected March 15, 1869.**Common Council:****WARD 1.**

Frederic T. Greenhalge, '68,
 John H. Durgin, Jr.,
 Patrick Keyes,
 Benjamin Patch.

WARD 2.

Joseph A. Patten, '55, '68,
 Phineas Jones,
 Francis D. Munn, '68,
 Amos Sanborn.

WARD 3.

George W. Badger, '68,
 Albert A. Haggett, '68,
 William Walker, '68,
 George E. Pinkham.

WARD 4.

William H. Anderson, '68, *Pres.*,
 Simeon G. Lyford,
 Henry P. Carter,
 Epaphras A. Hill.

WARD 5.

William Kelley, '68,
 Willard A. Brown,
 William O. Fiske,
 Edwin Lamson, '68.

WARD 6.

Francis Brown, '68,
 Alpha B. Farr, '58,
 Lucian P. Stacy, '55,
 William Kittredge, '67.

GEORGE GARDNER, *Clerk.*

1870.**Mayor:**

JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67, †'69.

Aldermen:

Edward F. Sherman,	Hapgood Wright, '45, '46, *'56, *'69.
Frank F. Battles,	John Q. A. Hubbard, '67, '68, *'69.
Charles L. Hildreth, *'68, *'69.	Addison Putnam, '64.
Amos B. French,	Charles A. Stott, '59, '60, *'69.

SAMUEL A. MCPHETRES, *City Clerk*.

Common Council:**WARD 1.**

John H. Durgin, Jr., '69.
Benjamin Patch, '69.
Patrick Keyes, '69.
Samuel G. Ladd.

WARD 2.

Phineas Jones, '69.
John L. Moulton,
Patrick Cummiskey,
David G. Skillings,

WARD 3.

Albert A. Haggett, '68, '69, *President*.
Henry P. Perkins, '60, '61.
Hocum Hosford, '60, *'61, †'62, †'63,
†'64, *'67, declined.
Matthew Donovan,
John L. Meadowcroft, elected Jan. 24.

WARD 4.

Epaphras A. Hill, '69.
Henry P. Carter, '69.
Simeon G. Lyford, '69.
Michael Corbett.

WARD 5.

William O. Fiske, '69.
Willard A. Brown, '69.
James D. Hartwell,
Jeremiah Crowley.

WARD 6.

Alpha B. Farr, '58, '69.
William Kittredge, '67, '69.
Lucian P. Stacy, '55, '69.
John Stott.

GEORGE GARDNER, *Clerk*.

1871.**Mayor:**

EDWARD F. SHERMAN, *'70.

Aldermen:

Frank F. Battles, *'70,	Albert A. Haggett, '68, '69, †'70,
William F. Salmon, '58, '59, †'60,	Henry C. Howe, '53, '54,
John W. Smith, '49, '50,	Frederick Ayer,
Amos B. French, *'70,	Addison Putnam, '64, *'70.

SAMUEL A. MCPHETRES, *City Clerk*.

Common Council:**WARD 1.**

John H. Durgin, Jr., '69, '70,
Samuel G. Ladd, '70,
Francis N. J. Haviland,
Joel Knapp.

WARD 2.

William Dobbins, '67,
John L. Moulton, '70,
Patrick Cummiskey, '70,
Amos A. Blanchard.

WARD 3.

Henry P. Perkins, '60, '61, '70, *Pres*.
John L. Meadowcroft, '70,
Horace Ela,
Julius C. Jockow.

WARD 4.

Benj. Walker, '65, '66,
Michael Corbett, '70,
Francis H. Chandler,
Charles T. Goddard.

WARD 5.

Jeremiah Crowley, '70,
Crawford Burnham,
Henry C. Church,
Patrick Lynch.

WARD 6.

Leonard Brown, '53, '54, '58, '59,
John Stott, '70,
Abel T. Atherton,
Nathaniel C. Sanborn.

GEORGE GARDNER, *Clerk*.

1872.**Mayor:**

JOSIAH G. PEABODY, *'50, '59, '60, †'65, †'66.

Aldermen:

Henry C. Howe, '53, '54, *'71,	Frederick T. North, '65, '66, '67,
Alexander G. Cumnock,	Benj. Walker, '65, '66, '71,
Benjamin Patch, '69, '70,	William Kelley, '68, '69,
Gustavus A. Gerry, '65, †'66, †'67,	Alpha B. Farr, '58, '69, '70.

SAMUEL A. MCPHETRES, *City Clerk*.

Common Council:**WARD 1.**

John E. Webb, '58, '59,
Alonzo F. Caswell,
Southwell Farrington,
True P. Jordan.

WARD 2.

Leonard Brown, '53, '54, '58, '59, '71,
Amos A. Blanchard, '71,
Joseph S. Brown,
Earl A. Thissell.

WARD 3.

Henry P. Perkins, '60, '61, '70, †'71,
Horace Ela, '71, [Pres.
Julius C. Jockow, '71,
Charles F. Tilton.

WARD 4.

Nathaniel P. Favor,
Nathan W. Frye,
Henry A. Lord,
Alonzo L. Russell.

WARD 5.

Crawford Burnham, '71,
Charles F. Belden,
Luther J. Eames,
William Shepard.

WARD 6.

Abel T. Atherton, '71,
Nathaniel C. Sanborn, '71,
Samuel M. Chase,
Julian Talbot.

GEORGE GARDNER, *Clerk*.

1873.**Mayor:**

FRANCIS JEWETT, '64, '65, *'68, *'69.

Aldermen:

Jonathan P. Folsom, '56, *'59, *'61,	Charles A. F. Swan, elected Jan. 14,
*'62, '67, †'69, †'70,	Jacob H. Sawyer,
George Runels, '62, *'64,	Jeremiah Crowley, '70, '71,
Edward Tuck, *'56, '58, *'59, declin'd,	Alpha B. Farr, '58, '69, '70, *'72,
Isaac Farrington, '46, '47, declined.	George Stevens.
William Dobbins, '67, '71, elec. Jan. 14,	

SAMUEL A. MCPHETRES, *City Clerk*.

Common Council:**WARD 1.**

John E. Webb, '58, '59, '72,
Alonzo F. Caswell, '72,
Frank Brady,
Stephen J. Smiley,

WARD 2.

Joseph S. Brown, '72,
Earl A. Thissell, '72,
Daniel Stickney,
Edward P. Woods.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71,
Charles F. Tilton, '72, resig'd Mar. 1,
William Bass,
James Owens,
James A. Loughlin, elected April 8. [Pres.

WARD 4.

Atwell F. Wright, '63, '64,
Nathaniel P. Favor, '72,
Nathan W. Frye, '72,
Henry A. Lord, '72.

WARD 5.

Robert H. Butcher, '66,
Charles F. Belden, '72,
Jared P. Maxfield,
George Smith.

WARD 6.

Nathaniel C. Sanborn, '71, '72,
Samuel M. Chase, '72,
George W. S. Hurd,
Artemas S. Tyler.

GEORGE GARDNER, *Clerk*.

1874.**Mayor:**

FRANCIS JEWETT, '64, '65, *'68, *'69, †'73.

Aldermen:

Jeremiah Crowley, '70, '71, *'73,
 Benj. Walker, '65, '66, '71, *'72,
 Alonzo F. Caswell, '72, '73,
 Joseph S. Brown, '72, '73,

Jonathan Kendall, '42, '44, '52,
 George L. Huntoon, '66, '67,
 Nathaniel C. Sanborn, '71, '72, '73,
 George Stevens, *'73.

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**

Charles A. Welch, '57,
 Frank Brady, '73,
 Stephen J. Smiley, '73,
 Charles H. Harvey.

WARD 2.

Daniel Stickney, '73,
 Edward P. Woods, '73,
 Charles J. Eastman,
 Edward E. Reed.

WARD 3.

Julius C. Jockow, '71, '72,
 James Owens, '73,
 James A. Loughlin, '73,
 George W. Tilton.

WARD 4.

Charles T. Goddard, '71,
 Nathan W. Frye, '72, '73, *President*,
 Jacob H. Sawyer, *'73,
 Julian A. Richardson.

WARD 5.

Jared P. Maxfield, '73,
 John B. Lyford,
 Samuel P. Marin,
 John Scott.

WARD 6.

George W. S. Hurd, '73,
 Joel A. Abbott,
 Thomas Carolin,
 Jason Fuller.

GEORGE GARDNER, *Clerk*, died May 29.DAVID CHASE, *Clerk*, elected June 4.**1875.****Mayor:**

FRANCIS JEWETT, '64, '65, *'68, *'69, †'73, †'74.

Aldermen:

Benj. Walker, '65, '66, '71, *'72, *'74,
 Jacob Rogers,
 John A. Goodwin,
 Joseph S. Brown, '72, '73, *'74,

Hapgood Wright, '45, '46, *'56, *'69,
 James Owens, '73, '74,
 Alden B. Richardson,
 Samuel A. Chase.

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**

Charles A. Welch, '57, '74,
 Charles H. Harvey, '74,
 John F. Howard,
 John W. Welch.

WARD 2.

Earl A. Thissell, '72, '73,
 Edward E. Reed, '74,
 William A. Read,
 Leavitt R. J. Varnum.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71,
 George W. Tilton, '74, [†'73, *Pres.*
 Charles Cowley,
 Thomas R. Garity.

WARD 4.

Josiah Butler,
 Francis Carll,
 Edward P. Dennis,
 Edward Stockman.

WARD 5.

James D. Hartwell, '70,
 John B. Lyford, '74,
 Orford R. Blood,
 Charles W. Sleeper.

WARD 6.

Joel A. Abbott, '74,
 Thomas Carolin, '74,
 Jason Fuller, '74,
 Albert D. Wright.

DAVID CHASE, *Clerk.*

1876.**Mayor:****CHARLES A. STOTT, '59, '60, *'69, *'70.****Aldermen:**

Jacob Rogers, *'75,	Henry A. Hildreth,
John A. Goodwin, *'75, [†'73, †'75,	George E. Stanley,
Albert A. Haggett, '68, '69, †'70, *'71.	Francis Carl, '75,
Charles F. Belden, '72, '73,	William H. Wiggins, '57.

SAMUEL A. MCPHETRES, City Clerk.**Common Council:****WARD 1.**

John W. Welch, '75,
 Lewis Stiles,
 Daniel W. Manning,
 David M. Collins, '56, declined,
 John F. Howard, '75, elected Jan. 11.

WARD 2.

Leavitt R. J. Varnum, '75,
 Charles E. Hallowell,
 Charles Callahan,
 William A. Read, '75.

WARD 3.

Charles Cowley, '75,
 Charles H. Kimball,
 Charles Runels,
 James Howard, died after election,
 William H. Grady, elected Jan. 11.

WARD 4.

Edward Stockman, '75, res. May 23,
 Gardner W. King,
 Stephen H. Jones,
 Charles D. Starbird,
 James W. Bennett, elected June 22.

WARD 5.

Orford R. Blood, '75,
 John F. Kimball, *Pres. from* May 23,
 Charles H. Hanson,
 M. Gilbert Perkins, '61, '67.

WARD 6.

Edwin Sanborn,
 Benjamin C. Dean, *Pres.*, res. May 23,
 Charles H. Walker,
 John J. Pickman,
 Willis Farrington, elected June 22.

DAVID CHASE, Clerk.**1877.****Mayor:****CHARLES A. STOTT, '59, '60, *'69, *'70, †'76.****Aldermen:**

Jeremiah Crowley, '70, '71, *'73, *'74,	Orford R. Blood, '75, '76, seat vacated,
Horace R. Barker,	Stephen B. Puffer, dec. el. Jan. 2,
George E. Stanley, *'76,	Robert Park,
Charles H. Kimball, '76,	George E. Pinkham, '69.
George P. Walker,	

SAMUEL A. MCPHETRES, City Clerk.**Common Council:****WARD 1.**

Daniel W. Manning, '76,
 Lewis Stiles, '76,
 John Courtney,
 Frank Brady, '73, '74, res. March 27,
 Jared P. Maxfield, '73, '74, elec. May 8.

WARD 2.

Charles E. Hallowell, '76,
 Francis D. Munn, '68, '69,
 Charles H. Robbins,
 Oliver M. Harding.

WARD 3.

William H. Grady, '76,
 Patrick Lynch,
 Simon Kelly,
 George E. Davis.

WARD 4.

Gardner W. King, '76,
 James W. Bennett, '76,
 Irving K. Goodale,
 Orlando Blodgett.

WARD 5.

John F. Kimball, †'76,
 Charles H. Hanson, '76,
 Peter S. Coburn,
 Robert Goulding.

WARD 6.

Edwin Sanborn, '76,
 John J. Pickman, '76,
 Charles H. Walker, '76,
 Augustus E. Spaulding, d. Jan. 10,
 George S. Cushing, elected Feb. 6.

DAVID CHASE, Clerk.

1878.**Mayor:****JOHN A. G. RICHARDSON.****Aldermen:**

Stephen B. Puffer, *'77,	George E. Scripture,
Robert Park, *'77,	Joseph S. Pollard, '64, '65, [*'77,
Horace R. Barker, *'77,	Jeremiah Crowley, '70, '71, *'73, *'74,
George F. Scribner, '57,	Nathaniel C. Sanborn, '71, '72, '73, *'74.

SAMUEL A. MCPHETRES, *City Clerk.*

Common Council:

<p style="text-align: center;">WARD 1.</p> <p>John Courtney, '77, John J. Mealey, Joseph M. Ambrose, Charles H. Harvey, '74, '75.</p> <p style="text-align: center;">WARD 2.</p> <p>Oramel A. Brigham, Edward M. Tucke, William W. Clark, Albert W. Monty.</p> <p style="text-align: center;">WARD 3.</p> <p>Simon Kelly, '77, Edward Cawley, Henry P. Morris, Samuel D. Butterworth.</p>	<p style="text-align: center;">WARD 4.</p> <p>Irving K. Goodale, '77, Orlando Blodgett, '77, Robert G. Bartlett, Stephen H. Jones, '76.</p> <p style="text-align: center;">WARD 5.</p> <p>Robert Goulding, '77, Peter S. Coburn, '77, John F. Kimball, ‡'76, ‡'77, <i>Pres.</i>, Enos O. Kingsley, '56.</p> <p style="text-align: center;">WARD 6.</p> <p>George S. Cushing, '77, Eli W. Hoyt, Luke B. Taylor, Miles F. Brennan, to Jan. 22, Thomas Nesmith, from Jan. 22.</p>
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DAVID CHASE, *Clerk.*

1879.**Mayor:****JOHN A. G. RICHARDSON, †'78.****Aldermen:**

Horace R. Barker, *'77, *'78,	George E. Scripture, *'78.
Charles A. R. Dimon,	George F. Scribner, '57, *'78,
Joseph S. Pollard, '64, '65, *'78,	Charles F. Howe,
Charles S. Lilley,	Robert Goulding, '77, '78.

SAMUEL A. MCPHETRES, *City Clerk.*

Common Council:

<p style="text-align: center;">WARD 1.</p> <p>Joseph M. Ambrose, '78, John O'Donnell, James Kelly, Richard J. Noonan.</p> <p style="text-align: center;">WARD 2.</p> <p>Albert W. Monty, '78. Charles H. Richardson, William K. Chase, res. Nov. 25. Edwin A. Robinson, Edward M. Tucke, '78, elect. Dec. 9.</p> <p style="text-align: center;">WARD 3.</p> <p>Edward Cawley, '78, Henry P. Morris, '78, William T. Benson, Patrick A. Rogers.</p>	<p style="text-align: center;">WARD 4.</p> <p>Robert G. Bartlett, '78, Fred Woodies, Charles F. Varnum, Charles E. Farrington.</p> <p style="text-align: center;">WARD 5.</p> <p>Albert W. Burnham, Ambrose L. Ready, Joseph M. Wilson, Edward B. Peirce, <i>Pres.</i></p> <p style="text-align: center;">WARD 6.</p> <p>Eli W. Hoyt, '78, Luke B. Taylor, '78, Major A. Shaw, Miles F. Brennan, '78.</p>
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DAVID CHASE, *Clerk.*

1880.**Mayor:****FREDERIC T. GREENHALGE, '68, '69.****Aldermen:**

James D. Hartwell, '70, '75,
 Atwill F. Wright, '63, '64,
 Charles H. Richardson,
 Edwin Lamson, '68, '69,

Isaac F. Scripture, * '62, * '63,
 Robert Wood,
 Charles H. Coburn,
 James C. Abbott.

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**

James Kelly, '79,
 Richard J. Noonan, '79,
 Thomas J. Flynn,
 Lawrence Cummings.

WARD 2.

Edwin A. Robinson, '79,
 Wilbur L. Bates,
 Samuel W. Foster,
 Earl A. Thissell, '72, '73, '75, *Pres't.*

WARD 3.

Peter H. Donohoe,
 William T. Benson, '79,
 Patrick A. Rogers, '79,
 Frank Wood.

WARD 4.

Fred Woodies, '79,
 Charles F. Varnum, '79,
 Charles E. Farrington, '79,
 Charles D. Starbird, '76.

WARD 5.

Joseph M. Wilson, '79.
 Ambrose L. Ready, '79,
 Samuel Hosmer,
 Edward B. Peirce, ‡ '79.

WARD 6.

Benjamin F. Freeman,
 J. Tyler Stevens,
 Charles C. Hutchinson.
 Henry C. Cooper.

DAVID CHASE, *Clerk.*

ORDINANCES
OF THE
CITY OF LOWELL,
PASSED SINCE
DECEMBER 29, 1876.

ORDINANCES.

No. 1.

AN ORDINANCE TO AMEND SECTION 11 OF CHAPTER XVI OF THE ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows :

That Section 11, of Chapter xvi, of the Ordinances of the City of Lowell, be and the same is hereby amended, by adding the following words at the end of said section :

No person not licensed as aforesaid shall employ or use any wagon, cart, truck, sleigh, sled, or other vehicle which may be necessary for the conveyance from place to place within the city, for hire, of any wood, coal, lumber, stone, brick, sand, gravel, clay, dirt, rubbish, goods, wares, furniture or merchandise.

Approved Nov. 13, 1877.

No. 2.

AN ORDINANCE AMENDING AN ORDINANCE.

Be it ordained by the City Council of the City of Lowell, as follows :

That the last two lines except the first word in said lines in Section 11, Chapter 16th, be stricken out, and the following lines inserted, viz :

The west side of the west end of Jackson Street, from the head of said street to the branch track of the Boston & Lowell Railroad.

Approved Dec. 26, 1877.

No. 3.

AN ORDINANCE FIXING THE TIME FOR ESTABLISHING SALARIES.

Be it ordained by the City Council of the City of Lowell, as follows :

The salaries and compensation of city officers shall be established in the month of February or March in each year, after the year 1878, and any change made in any existing salary shall take effect upon the first day of April following; and no change of salaries shall be allowed in any year after the passage of the resolution establishing the same for that year; and the salaries or compensation fixed for the payment of the said officers, shall be in full for all services performed by them by virtue of their offices; and all sums of money by them received from any and every source, in discharge of said services during any quarter of the fiscal year, shall at the expiration of said quarter be by them paid over or accounted for to the City Treasurer.

Section 7, of Chapter 23, of the Ordinances, is hereby repealed.

Approved Dec. 27, 1877.

No. 4.

AN ORDINANCE TO AMEND CHAPTER TWENTY-THREE OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows :

That in the second paragraph of Chapter Twenty-three, the following words be stricken out:

“No Assessor of Taxes shall assess in the same ward for more than two consecutive years.”

Approved March 19, 1878.

No. 5.

AN ORDINANCE TO AMEND CHAPTER XVI OF THE ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows :

Chapter Sixteen, of the Ordinances of the City of Lowell, is hereby amended, as follows:

In Section 9, by striking out in the third and fourth lines the words, “The east side of Dutton Street, from Market to Merrimack

Street," and inserting in place thereof the words, "The north side of Merrimack Street, from Anne to Dutton Street," and

In Section 11, by striking out the words, "Market" and "Pawtucket" in the eighteenth line, and inserting in place thereof the words, "Merrimack" and "Western," provided, however, that the number of carriages or vehicles allowed positions on the stands named in this Ordinance shall be limited so as not to interfere with public travel or safety, or with persons having business at the Merrimack Street Depot, and the City Marshal is hereby authorized to limit the number of carriages or vehicles allowed places on said stands or any part thereof.

Approved May 28, 1878.

No. 6.

AN ORDINANCE TO AMEND CHAPTER FIFTEEN OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows:

That Section Two of Chapter Fifteen of the Ordinances shall not apply to the land lying south of and adjoining Church Street between the Lowell & Andover Railroad and Concord River.

Approved June 25, 1878.

No. 7.

AN ORDINANCE TO AMEND CHAPTER FORTY-ONE OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows:

That Section Twenty of Chapter Forty-one of the Revised Ordinances of the City of Lowell, be amended in the paragraph relating to the rate to be charged for water for steam engines, by striking out the word "five," and inserting instead thereof the word "four."

Approved July 27, 1878.

No. 8.

AN ORDINANCE TO AMEND THE ORDINANCES RELATING TO THE BURIAL OF THE DEAD.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. Section 2 of Chapter 2 of the Revised Ordinances of the City of Lowell is hereby amended by striking out the words

“Superintendent of Burials,” and inserting in place thereof the words “City Clerk.”

SECT. 2. It shall be the duty of undertakers or other persons having charge of the burial of bodies of deceased persons brought into the City of Lowell and buried therein, to return to the City Clerk within one week after such burial the facts relating to such dead body, so far as they can be ascertained, required to be returned to the City Clerk by Section 8 of Chapter 2 of the Revised Ordinances of said City, and said Clerk shall record such facts in a book to be kept for that purpose.

SECT. 3. Whenever a body shall be removed from the place of the original or any subsequent interment to another place in the City, or shall be removed from the City, the undertaker or other person having charge of such removal shall within one week thereafter notify the City Clerk in writing, giving the name of the person whose body has been removed and the places where the body was removed from and to, and the City Clerk shall make a note to the original record or correct the same in such manner as to indicate the place of the latest interment.

Approved Feb. 18, 1879.

NO. 9.

AN ORDINANCE TO AMEND CHAPTER THIRTY-FOUR OF THE REVISED ORDINANCES OF THE CITY OF LOWELL, RELATING TO THE SUPERINTENDENT OF PUBLIC SCHOOLS.

Be it ordained by the City Council of the City of Lowell, as follows:

Section One of Chapter Thirty-four of the Revised Ordinances of the City of Lowell is hereby amended by striking out the words “January or February” wherever they occur in said Section, and inserting in place thereof the words “July or August.”

Approved March 11, 1879.

NO. 10.

AN ORDINANCE ESTABLISHING A FREE DISPENSARY FOR THE RELIEF OF THE SICK POOR OF THE CITY OF LOWELL.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. The Board of Overseers of the Poor shall, as soon as may be after the passage of this Ordinance, provide two or more

suitable rooms, located in a central part of the city, to be used as a Dispensary for the purpose of furnishing medicines and medical and surgical treatment free to the sick poor of the city of Lowell. Said rooms shall be suitably furnished and arranged for consulting and operating rooms, and for keeping and dispensing drugs and medicines as herein provided.

SECT. 2. Said Overseers of the Poor shall cause to be procured and kept for use in said rooms, such drugs, medicines, chemicals, and surgical appliances as may be necessary for the purpose for which said Dispensary is established, provided that the whole expense of said rooms, including rent, furniture, fixtures, medicines, and all other articles provided therefor, and the salary of the clerk to be employed therein, shall not exceed the sum of one thousand dollars per annum.

SECT. 3. Said Overseers of the Poor shall, as soon as may be after the passage of this Ordinance, and during the month of January in each year thereafterwards, appoint a board of twelve consulting physicians, members of the Middlesex North District Medical Society, who shall serve, without compensation, for the term of one year, commencing on the first Monday of February next following their appointment, excepting the Board of Physicians appointed for the current year, whose term of office shall expire on the day preceding the first Monday of February, in the year eighteen hundred and eighty. Said Board of Physicians shall organize on the first Monday of February in each year, and choose one of its members as Chairman. It may make such rules and regulations for its own Government; the management of said rooms; the treatment of patients; the dispensing of medicines, and all other matters relating thereto, as it may deem expedient, subject to the approval of said Overseers of the Poor, who may at any time annul, alter, or amend, said rules and regulations.

SECT. 4. Said Overseers of the Poor shall, as soon as may be after the passage of this Ordinance, and on the first Monday of February in each year thereafterwards, appoint a competent clerk, subject to the approval of the Board of Physicians, whose term of office shall be the same as that of said Board of Physicians, to remain at said rooms during such time as said Board of Physicians, or the Overseers of the Poor, shall require. Said clerk shall compound and dispense such medicines as may be regularly prescribed, and perform such other services connected with said Dispensary as may be required. The compensation of said clerk shall be fixed by the

Overseers of the Poor. All vacancies in said Board of Physicians, or in said office of clerk, may be filled at any time by said Overseers of the Poor, in the same manner, and subject to the same restrictions, as herein provided for their appointment, and said clerk or any member of said Board of Physicians may be removed at any time by said Overseers of the Poor for cause.

SECT. 5. Said rooms shall be kept open for receiving patients and dispensing medicines at least two hours in each day, excepting Sundays, and at such other times as said Board of Physicians or the Overseers of the Poor shall determine. During the time said rooms are kept open, some member of said Board of Physicians shall be present and furnish such medical and surgical treatment to patients as may be required under the rules and regulations of said Board and of the Overseers of the Poor.

SECT. 6. Any physician residing and practising in said Lowell, who may be called upon to prescribe medicines for sick persons who are residents of said city, and shall find that such persons are unable to pay for such medicine and medical attendance, may send prescriptions for such persons to said Dispensary, and the medicines prescribed shall be furnished therefrom free of charge, provided that the prescription therefor shall contain the name and residence of such sick person, the name of the prescribing physician, and, excepting those of the City Physician, shall be countersigned by one of said consulting physicians, or by the Secretary of the Board of Overseers of the Poor. All such prescriptions shall be preserved by said clerk, and recorded in a book to be kept for that purpose.

SECT. 7. Any resident of the City of Lowell needing such medical or surgical treatment as may be provided at said rooms, and who is unable to pay for the same, may apply therefor in person at said Dispensary, and shall receive medical and surgical treatment therein free of charge, subject to the rules and regulations thereof.

SECT. 8. The Overseers of the Poor shall in the month of December annually make a detailed report to the City Council, of their management of said Dispensary, the receipts and expenditures thereof, the number of patients and character of the diseases treated therein, and such other facts as may be necessary to a full understanding of the condition, benefits and management of the same. And such report shall be accompanied with such parts of the report of said Board of Consulting Physicians as may be deemed advisable.

Approved June 10, 1879.

No. 11.

AN ORDINANCE RELATING TO WARRANTS FOR CALLING MEETINGS
OF THE CITIZENS.

Be it ordained by the City Council of the City of Lowell, as follows :

The form of warrants for calling meetings of the citizens of the several wards, as prescribed in Chapter Forty of the Revised Ordinances of the City of Lowell, may be varied by the Mayor and Aldermen, so far as it may be necessary to distinguish in said warrants between the class of citizens allowed by law to vote for all officers or propositions at any election, and the class who are allowed to vote only for a portion of the officers or propositions at such election.

Approved Nov. 11, 1879.

No. 12.

AN ORDINANCE TO AMEND CHAPTER 41 OF AN ORDINANCE
CONSOLIDATING AND ESTABLISHING THE ORDINANCES OF
THE CITY OF LOWELL.

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. Section 11 of Chapter 41, relating to Water Works, is hereby amended by striking out all of said section and inserting in place thereof the following, to wit : The annual rent for the use of the water shall be made up and assessed to the owners of estates having a service pipe, and not using metered water, on the first day of March in each year, for the year commencing the first day of April succeeding said assessment, and the rates so assessed shall be due and payable in advance on the first day of May following.

No abatements shall be made for vacancies in houses or tenements, unless such vacancies shall be of two or more consecutive months duration, due notice thereof having been given the Water Board at the beginning of said vacancies, or for a less number of persons occupying any premises, after the annual assessment in March.

All charges for specific supplies, or for any 365th part of a year, shall be payable in advance, and before the water is let on.

SECT. 2. Section 12 of Chapter 41 is hereby amended by striking out the word "sixty" in the second line, and inserting in place thereof the word "thirty."

SECT. 3. Section 13 of Chapter 41 is hereby amended by striking out the words "the Superintendent, under the direction of."

SECT. 4. Section 20 of Chapter 41 is hereby amended by striking out the first twelve lines, and inserting in place thereof the words: "The following rates shall be charged annually for the use of the water from and after the first day of April in the year eighteen hundred and eighty, and *pro rata* for any 365th part of a year:

For a family not exceeding six persons, six dollars. Families of more than six persons shall pay fifty cents for each additional person above six." And by striking out the fortieth and forty-first lines and inserting in place thereof the following words: "Steam boilers in dwellings for heating purposes shall be assessed one dollar each; for blocks and public buildings, two to five dollars each building." And by adding the following words to the 65th line, "which shall be assessed upon the owner of the premises where such lime or cement is used."

And by adding after the 95th line the following words, "Blacksmiths: for first forge, three dollars; for each additional forge, one dollar and fifty cents."

"Billiard saloons: for first table, three dollars; for each additional table, one dollar and fifty cents."

"Club rooms: not less than three dollars, nor more than twenty dollars."

And by striking out from line 102, after the word "services," the following words, "New service shall be charged one family rate at least, and one year from the time such service is put in, whether the water is taken or not."

And by striking out all of the words, in said Section 20, after the word "meters" in line 112, and inserting in the place thereof the following words: "After the first day of April, persons charged for the use of water at the annual rates, shall not be allowed to change from annual to metered rates; provided, however, that prior to the first day of March in each year, all water-takers who desire to pay metered, instead of annual rates, may apply to the Water Board for a meter to be placed within their premises on the first day of April following. Said meter shall be furnished and set by the City of Lowell, and the expense thereof shall be paid by the person making application therefor, within thirty days from the time the meter is set; the said city to remain the owner of said meter until the expense of the same is paid.

The charge for metered water shall be fixed and determined by

the Water Board, and bills shall be made payable quarterly on the first days of January, April, July, and October, and if not paid in thirty days after the same are due, the water shall be shut off in accordance with the provisions of Section 12. The Water Board shall have the power to ascertain by meter the quantity of water used in any case, and when in any case the quantity used shall be ascertained and measured by meter, the Water Board may charge for measured water or establish a water rate therefor instead of the specific rate hereinbefore established.

If a meter gets out of order and fails to register, the consumer may be charged at the average daily consumption, as shown by the meter when in order. Repairs of meters may be made by the Water Board, at the expense of the owners, whenever the Water Board deem repairs necessary, and no meter shall be moved or disturbed without permission from the Superintendent of the Water Works. In no case where a meter is set shall the annual charge be less than twelve dollars, which minimum annual charge shall be payable in advance, in all cases where the first quarterly reading of said meter does not indicate such an amount of water used."

Approved Feb. 3, 1880.

No. 13.

AN ORDINANCE RELATING TO THE BOARD OF HEALTH.

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. The Board of Health of the City of Lowell shall consist of two persons, not members of the City Council, and the City Physician, *ex-officio*, and shall have all the powers and duties assigned to Boards of Health by the Statutes of the Commonwealth. The Mayor and Aldermen shall, in the month of January in each year, appoint one person to serve as a member of said Board for the term of two years, commencing on the first Monday of February then next ensuing. The members so appointed shall be subject to removal at any time by the Mayor for cause; and all vacancies occurring in said board shall be filled by the Mayor, with the approval of the Board of Aldermen. The members so appointed shall receive such compensation as the City Council shall from time to time determine. Said Board shall organize on the first Monday in February, in each year, by the choice of one of its members as

Chairman, and may at any time choose a Clerk, not a member of the Board, and make such rules and regulations for their own government, and the government of all subordinate officers in its own department, as it may deem necessary.

SECT. 2. The Board of Health may make all regulations which they may deem necessary in regard to the removal and abatement of filth, rubbish, nuisances, and causes of diseases, and shall have power to require the aid and assistance of such agents as may be needed to enforce such regulations; and may fix their compensation and the compensation of the Clerk before mentioned, provided that the whole amount of such compensation shall not exceed the sum appropriated therefor by the City Council.

SECT. 3. It shall be the duty of the City Marshal, subject always to the direction, authority, and control of the Board of Health, to carry into execution all the ordinances and rules made by the City Council relative to causes of sickness, nuisances, and sources of filth that may be injurious to the health, or may affect the comfort of the inhabitants of the city; and to cause all such nuisances, sources of filth, and causes of sickness to be removed, destroyed, or prevented, as the case may require, conformably to such ordinances and rules and the laws of the Commonwealth.

SECT. 4. When there is a main drain or common sewer in any street, highway, passageway, or alley, every owner of land adjoining such street, highway, passageway, or alley shall make a sufficient drain from his house, yard, or lot, to such sewer, and shall cause all waste water to be conducted through the same to said main drain or common sewer, and no person shall suffer any waste or stagnant water to remain in any cellar or upon any lot or vacant grounds by him owned or occupied.

SECT. 5. When the Board of Health shall be satisfied that any tenement, used as a dwelling-house, is not furnished with a sufficient drain, privy, and vault, or either of them, they shall give notice in writing to the owner or his agent, requiring that a suitable drain, privy, and vault, or either of them, be constructed within such time as they shall appoint; *provided*, that notice to non-resident or unknown owners may be given by advertising in some public newspaper published in Lowell. And in case such requisition be not complied with, the Board shall cause such drain, privy, and vault, or either of them, to be constructed, and the expense thereof shall be charged to such owner or agent.

SECT. 6. Whenever the Board of Health shall find that the num-

ber of persons occupying any tenement is so great as to be the cause of nuisance or sickness, or a source of filth; or whenever any tenement is not furnished with a suitable privy, vault, and drain under ground, according to the provisions of this chapter, the Board may cause all or any persons occupying such tenement to be removed therefrom, first giving them notice in writing to remove, and allowing them the space of at least forty-eight hours in which to comply with said notice.

SECT. 7. Hereafter all privy vaults shall be made of brick and cement, and contain at least eighty cubic feet, and shall be so constructed that the inside of the same shall be at least two feet distant from the line of every adjoining lot, unless the owner of such lot shall consent and agree otherwise, and also two feet from every street, lane, passageway, or public place; and every vault shall be made tight, and its contents shall never be within two feet of the surface of the ground about the same. And whenever any privy or vault shall become offensive, the same shall be cleansed. And in case the condition or construction of any vault or privy shall be different from the requirements of this section, the Board of Health may cause the same to be cleansed, repaired, amended, altered, or removed, and shall charge all the expense incurred in so doing to the owner, or party occupying the estate in which such privy or vault may be; *provided*, they shall first notify such owner or party occupying, in the manner provided in the fifth section of this chapter; and allow the space of at least forty-eight hours for such owner or occupant to comply with such notice.

SECT. 8. No privy or vault shall be opened without permission of the Board of Health, nor in any other mode nor at any other time than such as the Board of Health may direct, and no person shall remove the contents of any vault or privy, except in a water-tight cart or wagon, the owner or driver of which shall be licensed therefor, upon such terms and regulations as the Board of Aldermen prescribe, and no person owning or driving such cart or wagon shall cause or permit the same to enter, stand in, or proceed through any of the streets, lanes, or public places of the city, at any other time than between the hours of ten o'clock, P. M., and four o'clock, A. M., except by written permission of the Board of Health.

SECT. 9. Whenever it shall appear to the Board of Health that any cellar, lot, or vacant land within the city has become a nuisance, or so situated that it may probably become dangerous to the public health, they may cause the same to be drained, filled up, or other-

wise prevented from becoming or remaining a nuisance or a cause of sickness ; and shall charge all reasonable expenses incurred in so doing to the several owners or parties occupying such cellar, lot, or vacant land ; *provided*, notice shall have been first given as provided in the fifth section of this chapter, and the space of forty-eight hours thereafter allowed.

SECT. 10. No person shall remove or carry through any street, alley, or public place in the city, any house dirt, offal, filth, rubbish, contents of any privy or vault, or waste matter of any kind, from any dwelling-house or other place, unless the owner or driver of the cart, wagon, or other conveyance in which the same be carried, shall be licensed for such purpose by the Board of Aldermen.

SECT. 11. No person shall cast any vegetable or dead animal substance into any street, lane, passageway, cesspool, or sewer, nor into any of the wells, cisterns, reservoirs, ponds, canals, or waters within the city, nor cause any animal to be drowned in said waters. Nor shall any person place, sweep, or deposit any dirt, sawdust, soot, ashes, cinders, shreds, shavings, hair, manure, oyster or lobster shells, or any rubbish, offal, or filth of any kind in or upon any public highway, street, sewer, sidewalk, court, passageway, or public place, without a written license from the Board of Health.

SECT. 12. No person shall bring into the city for sale, nor offer for sale, any diseased, unwholesome, stale, or putrid meat, fish, or other article of provisions, nor any fish, except fresh salmon and shad, and except smelts and other small fish, that shall not first have been cleansed of their entrails and refuse parts.

SECT. 13. All house dirt, rubbish, filth, and waste matter that may be collected in any house or warehouse, or on private property in the city, shall, when ordered by the Board of Health, be carried away therefrom, under the direction of the City Marshal, by and at the expense of the owner or occupant of such house, warehouse, or other private property, and removed to such place as may be directed by the Marshal as aforesaid, within twenty-four hours after such order. And the City Marshal, when ordered by the Board of Health, shall, at any time between sunrise and sunset, enter into any building or other place in the city, for the purpose of examining into, destroying, removing, or preventing any nuisance, source of filth, or cause of sickness therein. And in case such entrance be opposed, he shall make known such opposition to the Board of Health, in order that a warrant may be obtained to enforce the same, as provided by law.

SECT. 14. No person shall remove any manure, or cause or suffer the same to be removed, between the first day of May and the first day of November, except between the hours of twelve o'clock at night and two hours after sunrise, without a permit therefor from the Board of Health.

SECT. 15. No fowls, swine, or goats shall be kept within the limits of the city, without the license of the Board of Health, and only in such place and manner as they may direct.

SECT. 16. It shall be the duty of the City Marshal to keep an exact account of all costs, outlays, and expenses that may be incurred in carrying into effect any of the purposes and provisions set forth or contained in the fifth, seventh, and ninth sections of this chapter, and without delay to report the same to the Auditor of Accounts, with the names of the various persons to whom they may be chargeable, and the proportion or amount payable from each person. And the Auditor shall examine, correct, and charge the same in his books, and without delay make out bills therefor, and place said bills in the hands of the City Treasurer for collection.

SECT. 17. Any person who shall offend against any of the provisions of this chapter shall forfeit and pay for each offence a sum not exceeding twenty dollars.

SECT. 18. All ordinances or parts of ordinances inconsistent with the provisions of this ordinance are hereby repealed.

SECT. 19. This ordinance shall take effect upon its passage.

Approved March 9, 1880.

No. 14.

AN ORDINANCE PROVIDING FOR THE PAYMENT OF THE CITY DEBT.

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. All sums of money hereafter received from the Commonwealth of Massachusetts, on account of corporation tax or national bank tax, or from the credits standing to the account of abatement of taxes, shall, until Jan. 1, 1896, be placed to the credit of a "fund for the reduction of the ordinary city debt," which becomes due in the years 1880 to 1895, inclusive.

SECT. 2. Said sums of money, when received, shall be invested by the Commissioners of Sinking Funds, and with the accumula-

tions of interest shall be held for the payment of the said city debt, as it becomes due in each year, as aforesaid, and shall be used for no other purpose.

Approved April 13, 1880.

No. 15.

AN ORDINANCE PROVIDING FOR FREE TEXT-BOOKS.

Be it ordained by the City Council of the City of Lowell, as follows :

That the School Committee are authorized to purchase text-books for use in the public schools, said text-books to be the property of the city or town, and to be loaned to pupils under such regulations as the School Committee may provide.

Approved Dec. 28, 1880.

No. 16.

AN ORDINANCE TO AMEND SECTION FOURTEEN OF CHAPTER THIRTY-THREE OF THE REVISED ORDINANCES OF THE CITY OF LOWELL.

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. Section Fourteen of Chapter Thirty-three of the Revised Ordinances of the City of Lowell, is hereby amended by adding at the end of said section the following words: "except in such streets or ways as are designated by the Mayor and City Marshal."

Approved Jan. 27, 1881.

No. 17.

AN ORDINANCE TO AMEND SECTION SIX OF "AN ORDINANCE ESTABLISHING A FREE DISPENSARY FOR THE RELIEF OF THE SICK POOR OF LOWELL."

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. Section Six of the Ordinance entitled "An Ordinance Establishing a Free Dispensary for the Relief of the Sick Poor of Lowell" is hereby amended by striking out the following words: "Excepting those of the City Physician."

Approved Feb. 8, 1881.

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FIFTY-FIFTH
ANNUAL REPORT
OF THE
SCHOOL COMMITTEE
OF THE
CITY OF LOWELL, MASS.,
TOGETHER WITH THE
SEVENTEENTH ANNUAL REPORT
OF THE
SUPERINTENDENT OF PUBLIC SCHOOLS,
REPORTS ON DRAWING, EVENING SCHOOLS, AND MUSIC,
AND AN APPENDIX.

1880.



LOWELL, MASS.:
VOX POPULI PRESS: HUSE, GOODWIN & CO.
1881.

CITY OF LOWELL.

IN SCHOOL COMMITTEE,
Jan. 1, 1881.

THE Chairman of the Committee on Reports, DR. LEONARD HUNTRESS, JR., presented a report this day, which was unanimously adopted as the Report of the School Committee for 1880.

The Superintendent of Schools, and Chairmen of the Standing Committees on Evening Schools, on Penmanship and Drawing, and on Music, at the same time presented reports, which were accepted and ordered to be printed with the Report of the School Committee.

CHARLES MORRILL, *Secretary.*

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1880.

FREDERIC T. GREENHALGE, Chairman.

CHARLES H. ALLEN, Vice-Chairman.

CHARLES MORRILL, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

FREDERIC T. GREENHALGE, Mayor	.	.	.	}	<i>Ex Officiis.</i>
EARL A. THISSELL, President of the Common Council,	.	.	.		
Ward 1—TIMOTHY H. BRENNAN	.	.	.	Term expires	1880
JOHN A. SMITH	.	.	.	"	" 1881
" 2—DANIEL P. GALLOUPE	.	.	.	"	" 1880
HENRY J. McCOY	.	.	.	"	" 1881
" 3—JOHN H. MORRISON	.	.	.	"	" 1880
MICHAEL SEXTON	.	.	.	"	" 1881
" 4—SOLON W. STEVENS	.	.	.	"	" 1880
CHARLES H. ALLEN	.	.	.	"	" 1881
" 5—GEORGE C. OSGOOD	.	.	.	"	" 1880
JOHN J. COLTON	.	.	.	"	" 1881
" 6—LEONARD HUNTRESS, JR.	.	.	.	"	" 1880
SAMUEL A. CHASE	.	.	.	"	" 1881

STANDING COMMITTEES.

- ON ACCOUNTS—Messrs. Greenhalge, Thissell, Chase, Morrison, Smith.
- ON SCHOOL-HOUSES AND HYGIENE—Messrs. Allen, Brennan, Huntress,
Galloupe, Sexton.
- ON TEACHERS—Messrs. Galloupe, Allen, Stevens, Colton, Morrison.

ON REPORTS—Messrs. Huntress, Colton, Osgood, Morrison, Smith.

ON TEXT-BOOKS—Messrs. Stevens, Galloupe, Allen, Smith, Chase, Sexton.

ON SALARIES—Messrs. Greenhalge, Huntress, Morrison, McCoy, Galloupe.

ON PENMANSHIP AND DRAWING—Messrs. Allen, Chase, Sexton, Brennan, Huntress.

ON MUSIC—Messrs. Stevens, Colton, Osgood, McCoy, Sexton.

ON EVENING SCHOOLS—Messrs. Osgood, Brennan, McCoy, Colton, Smith.

ON RULES AND REGULATIONS—Messrs. Colton, Brennan, Osgood, Stevens, McCoy.

ASSIGNMENT OF SCHOOLS.

THE MAYOR—High and Reform Schools.

MR. THISSELL—Reform School.

MR. BRENNAN—Mann, Primaries 44, 22, 41, 43, 11, 26.

MR. SMITH—Primaries 8, 29, 12, 23, 69, 10, 63, Mixed No. 1.

MR. GALLOUPE—High, Varnum, Primaries 46, 47, 48, 49, 55, 60, 61.

MR. MCCOY—Green, Primaries 7, 21, 53, 18, 1, 3.

MR. MORRISON—High, Reform, Colburn, Primaries 33, 56, 30, 15, 6, 5.

MR. SEXTON—Primaries 20, 57, 13, 68, 64, 66, 59, 71.

MR. STEVENS—High, Edson, Primaries 24, 28, 27, 42.

MR. ALLEN—High, Reform, Franklin, Intermediate, Primaries 17, 34, 50, 62, 67, 31.

DR. OSGOOD—Reform, Primaries 2, 65, 40, 45, 36, 38, 70, 4, 54.

DR. COLTON—High, Bartlett, Primaries, 32, 58, Mixed No. 2.

DR. HUNTRESS—High, Primaries 14, 25, 16, 37, 9, 51, 19, 39.

MR. CHASE—Moody, Primaries 35, 72, 52.

CHARLES MORRILL, Superintendent of Public Schools.

Office in City Government Building.

OFFICE HOURS.—One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Wednesday and Saturday afternoons.

TRUANT COMMISSIONERS.

BICKFORD LANG.

WILLIAM H. BIRMINGHAM.

Office in City Government Building.

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1881.

FREDERIC T. GREENHALGE, Chairman.
 CHARLES H. ALLEN, Vice-Chairman.
 CHARLES MORRILL, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

FREDERIC T. GREENHALGE, Mayor	}	<i>Ex Officiis.</i>
CHARLES C. HUTCHINSON, President Common Council		
Ward 1—JOHN A. SMITH	Term expires	1881
TIMOTHY H. BRENNAN	“	“ 1882
“ 2—HENRY J. MCCOY	“	“ 1881
DANIEL P. GALLOUPE	“	“ 1882
“ 3—MICHAEL SEXTON	“	“ 1881
JOHN J. GREEN	“	“ 1882
“ 4—CHARLES H. ALLEN	“	“ 1881
OLON W. STEVENS	“	“ 1882
“ 5—JOHN J. COLTON	“	“ 1881
GEORGE C. OSGOOD	“	“ 1882
“ 6—SAMUEL A. CHASE	“	“ 1881
LEONARD HUNTRESS, JR.	“	“ 1882

STANDING COMMITTEES.

ON ACCOUNTS—Messrs. Greenhalge, Hutchinson, Chase, Brennan, Smith.
 ON SCHOOL-HOUSES AND HYGIENE—Messrs. Allen, Brennan, Huntress,
 Galloupe, Sexton.
 ON TEACHERS—Messrs. Galloupe, Allen, Stevens, Colton, Green.

- ON REPORTS—Messrs. Colton, Osgood, Green, Smith, Huntress.
 ON TEXT-BOOKS—Messrs. Stevens, Galloupe, Allen, Smith, Chase, Sexton.
 ON SALARIES—Messrs. Greenhalge, Huntress, McCoy, Galloupe, Green.
 ON PENMANSHIP AND DRAWING—Messrs. Huntress, Allen, Chase, Sexton, Green.
 ON MUSIC—Messrs. Stevens, Colton, Osgood, McCoy, Sexton.
 ON EVENING SCHOOLS—Messrs. Osgood, Brennan, McCoy, Colton, Smith.
 ON RULES AND REGULATIONS—Messrs. Colton, Brennan, Osgood, Stevens, McCoy.
 ON PAROCHIAL SCHOOL IN BELVIDERE—Messrs. Greenhalge, Green, Galloupe, Smith, Stevens, Osgood.
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ASSIGNMENT OF SCHOOLS.

- THE MAYOR—High and Reform Schools.
 MR. HUTCHINSON—Reform School.
 MR. BRENNAN—Mann, Primaries 44, 22, 41, 43, 11, 26.
 MR. SMITH—Primaries 8, 12, 23, 29, 69, 10, 63, 73, 27, 42, Mixed No. 1.
 MR. GALLOWPE—High, Varnum, Primaries 46, 47, 49, 75.
 MR. MCCOY—Green, Primaries 1, 3, 48, 55, 60, 61.
 MR. GREEN—High, Reform, Colburn, Primaries 33, 56, 5, 6, 15, 30.
 MR. SEXTON—Primaries 13, 20, 57, 68, 64, 63, 59, 71, 72, 7, 21.
 MR. STEVENS—High, Edson, Primaries 24, 28, 77.
 MR. ALLEN—High, Reform, Franklin, Intermediate 1, Primaries 17, 34, 50, 31, 76.
 DR. OSGOOD—Reform, Primaries 2, 65, 40, 45, 36, 78, 40, 4, 54, 62, 67.
 DR. COLTON—High, Bartlett, Primaries 32, 58, Mixed No. 2.
 DR. HUNTRESS—High, Primaries 14, 25, 16, 37, 9, 51, 19, 39, 53, 78, 18.
 MR. CHASE—Moody, Primaries 35, 52.
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REPORTS.

REPORT OF THE SCHOOL COMMITTEE.

THE exact scope of the Report of the School Committee it is difficult to determine. The Superintendent of Schools and the various subcommittees present in detail reports of all our schools, with whatever suggestions they may deem necessary. This report can refer only to the general condition of our schools, and touch upon some of the broader questions in relation to them.

To say that our schools are up to their usual standard would seem praise enough; and this we can fairly claim. In our High School, Grammar Schools, and Primary Schools, we have a good corps of teachers, and good work is being done. But here we would like to make a criticism, not on the management of our schools under the present system, but on the system itself. For the past twenty years or more the tendency of modern teaching has been to drift steadily away from that old and safe maxim, *multum non multa*, until, like

too many ancient things, it is becoming obsolete with us. To take a striking example of this tendency, let us glance for a moment at the leading institution for learning in this country. To-day the examination for admission to Harvard College covers much more ground than it did twenty years ago. But it is a fact that a corresponding increase of study is not necessary in order to pass the examination. For in the class, for example, which entered this college in 1860, the average age on admission was 18 years $1\frac{1}{2}$ months, while the average age of the class which entered in 1875 was 18 years $6\frac{2}{3}$ months, a difference by no means corresponding with the change in the examinations.

And instructors of many years' experience bear witness that boys are not more studious to-day than were the boys of twenty years ago. If any old Andover or Exeter boy should revisit the scenes of his youthful studies, he would see that no more work is necessary now for preparation for college than was required of him. The same amount of study is expended; *it is spread out more.*

This same tendency, which is fostered by our highest universities, is noticeable in schools of a higher grade, especially in High Schools. Let any

one cast his eye over the list of books used in our High School, or in any High School in the country. Surely something is wrong when lads and misses have been allowed to dabble with Geometry and Botany, Greek and Latin, French and German, and yet on graduation are found wofully ignorant of the common English branches. And the fault lies not with the instructors, but with the system. The very fact that they have studied so many subjects is the reason why they have learned so little. As soon as a boy has learned to spell half the common English words correctly, and can read ordinary English prose without stumbling at every step, and can reckon with an approach to accuracy, he is set to work on one of the higher branches. By cramming he is expected to *master* this in a few months, so that he may turn his attention to another study and forget the one already *mastered*.

In universities, where students are supposed to have grounded themselves in all the common branches, and devote themselves to study simply as a training for the mind, they are willing to read much which they know they will forget, for the sake of the benefit they derive from the intellectual schooling. But in our common schools the minds of the pupils can be better trained by

close and careful attention to the common studies than by a cramming of the higher branches; and if they are not able to delude themselves with the idea that they have received an ornamental education, they can at least feel sure that they have received a useful one. What parent would feel proud to know that his son could translate a difficult passage in Greek into ungrammatical and misspelled English? And yet this is an accomplishment by no means rare.

Mr. Richard Grant White, in a carefully prepared paper entitled "The Public School Failure," which appeared in the December number of the "North American Review" for 1880, has collected many facts to support his theory that the public school system is a failure, and ought to be abolished. Although we cannot agree with him in his conclusions, still we are forced to admit the truth of many of the facts which he presents, and we take the liberty to repeat some of them as bearing upon the subject under discussion.

Mr. White, in referring to a report on the public schools of Norfolk County, by Mr. Geo. A. Walton, agent of the Massachusetts State Board of Education, represents the following summary of the report which was made by the Chicago "Times," as correct and unexaggerated.

The "Times" says :—

The examinations were, in the first place, of the simplest and most practical character. There was no nonsense about them. They had but one object,—to see if in the common schools the children were taught to read, write, and cipher. . . . The showing made by some of the towns was excellent, and of them we shall speak presently. In the case of others, and of many others, it is evident from what Mr. Walton says, and still more from what he intimates, that the scholars of fourteen years of age did not know how to read, to write, or to cipher. They could, it is true, repeat the pieces in their school-readers, and parse and spell in classes, and rattle off rules in grammar and arithmetic, not one word of which they understood; but if they were called upon to write the shortest of letters or the simplest of compositions, or to go through the plainest of arithmetical combinations, their failure was complete. They had in fact been taught what to them were conundrums without end; but the idea that the teaching was to be of any practical use in the lives of these children when they grew up to be American men and women, formed no part of the system, and evidently had never entered into the heads of the instructors. . . . Then when the letters and compositions were brought in, the ingenuity in bad spelling seems simply incredible. Unless the different misspellings of the word "scholar," for instance, were given, as in this volume they are, who would believe that there would be some two hundred and thirty in number? Then, again, sixty-five different spellings are enumerated of the word "dépôt"; one hundred and eight of the common word "whose," and fifty-eight of "which." Out of eleven hundred and

twenty-two pupils who used the adverb "too" in the narratives, eight hundred and fifty-nine, or nearly seventy-five per cent. of the whole, spelled the word incorrectly. Then, on pages 218, 219, and 246-248 of the report, we are given *fac-simile* lithographs of these letters and compositions, showing their average excellence in certain of the towns, and anything worse it would be hard to conceive. Language fails to do justice to them; they only can do it themselves.

Again, Mr. White quotes from Mr. Charles Francis Adams, Jr., who, in his paper on "The New Departure in the Common Schools of Quincy," says of an examination of those schools by competent and impartial gentlemen, in 1873: "The result was deplorable. The schools went to pieces. . . . In other words, it appeared, as the result of eight years' school teaching, that the children, as a whole, could neither write with facility nor read fluently."

We have offered these facts to show that we are not alone in declaring necessary a reforming of our school system. But we cannot agree with Mr. White and others of his mind when they go so far as to declare our public schools a failure and worse than a failure. Mr. White even affirms that our public school system fosters vicious habits and tends to increase crime. He shows by the census of 1860, that New England society formed

under the public school system produced one native white criminal to every 1,084 inhabitants, while the Southern States, which had been almost entirely without that system, produced only one to every 6,670,—a disproportion of more than six to one.

In regard to that, we would say that the census alluded to refers to *convicted* criminals, and it would not be difficult to imagine a society where the number of criminals convicted would by no means represent the crime committed. In New England men are convicted of crimes which pass unnoticed in many places in the South. And it is a well-known fact that a large proportion of the crimes committed in any country are incident to cities and not to sparsely settled districts. Contrast New England, completely studded with cities, with the scattered population of the South, and consider whether the comparison drawn by Mr. White is a fair one.

But, nevertheless, without going the length of the extreme *pessimists*, we must admit that there are many reasons why our present public school system should be sharply criticised.

We desire to call attention to the crowded condition of some of our schools. There are a dozen schools in Lowell in each of which the number of

the pupils is seventy or more. In three schools the number exceeds eighty. In Ward Six, an overcrowded school has been obliged to transfer some of its scholars to a vacant room over a blacksmith-shop,—the only accessible quarters. In Ward Four, the Ward Room holds the overflow from a school crowded almost to death. The other overcrowded schools cannot find any place to which to transfer their extra scholars, and assistants have been placed in the same rooms with regular teachers.

The reason why the schools in which assistants have been employed have been divided, whenever it has been found practicable, is twofold. In the first place, two teachers cannot work to advantage in the same room. The assistant is in the way of the regular teacher. Any experienced teacher would prefer to manage a school, even if very large, unassisted. If necessary it would be better that the pupils should be taught on half time, than that two teachers should try to work together in a crowded room.

The second reason, and the more important one, is the matter of fresh air. The Green and Bartlett School-houses are the best ventilated school-houses in the city, but even there the rooms are more or less imperfectly ventilated. In any

school-room constructed to hold fifty scholars, if that number be present the air becomes foul long before the close of the session. If at the close of school an analysis should be made of the air in such a room, after eighty pairs of lungs had worked upon it for three hours, such an amount of animal vapor and carbonic acid gas would be found to be present as would deter any thoughtful parent from sending his child to that school again.

It will perhaps be in place here to speak of a matter which immediately concerns the health of children attending public schools. We refer to near-sightedness.

Reliable experiments have shown that in every one hundred school-children between the ages of six and seven years in this country, three are near-sighted. This ratio steadily increases, until at the age of twenty, twenty-six in one hundred are thus affected. Although this is a much smaller percentage than is found in most European countries (in Germany, for instance, more than one-half the students at the age of twenty, being near-sighted), still the disease is sufficiently prevalent to be a cause of deep concern. That this prevalence is in a great measure due to study, there can be

no doubt. Erisman has shown that in 4,358 scholars who were in the habit of studying out of regular school hours,—

Of those studying two extra hours, 17 per cent. were near-sighted.

Of those studying four extra hours, 29 per cent. were near-sighted.

Of those studying six extra hours, 40 per cent. were near-sighted.

One of the causes which tend to increase near-sightedness in school-children, is work on minute objects, such as fine print or intricate maps. A special committee from the School Board has been appointed to examine into this matter, and they have already commenced their investigations. They find that most of the text-books used in the public schools are printed in large and clear type; though some changes will probably be recommended. The most ineligible type is found in certain editions of standard Greek and Latin authors. Here this difficulty is met with. A boy begins the study of Virgil, for example. There is an old copy of this work in his family, which, perhaps, has been handed down for several generations. The Principal of the High School cannot compel him to use another book, even if the one in his possession is printed in

objectionable type. But at the beginning of each term certain editions can be recommended, and others objected to, and in this way the trouble can be partially remedied.

Another cause of near-sight is insufficient or dazzling light. This may be due to two causes. In the first place, the windows may be so arranged as not to throw sufficient light into the room, or so as to throw it into the faces of the children. Secondly, it may be due to the color or shade of the ceiling or walls. If there are any school-houses in this city in which the windows are not properly arranged, it would be difficult to have them remedied, but care can be taken in this matter in regard to all school-houses built in the future. The second cause of improper light can easily be set right in all cases.

That prolonged and excessive study is by no means an insignificant cause of near-sight can be seen by referring to the statistics of Erisman. To prevent such study rests with the parents rather than the teachers, but lessons should never be assigned to the younger children at least, of such a length as to render necessary any study outside of school hours.

If these suggestions should be faithfully attended to, there would still remain a large amount of

near-sightedness among the pupils, which in many instances would steadily increase as the pupils advanced in years. If these cases were properly investigated and attended to, many of them might be relieved.

Dr. Hasket Derby, of Boston, in a paper on this subject, read before the Boston Society for Medical Improvement, May 24, 1880, has given some suggestions for the benefit of the School Committee of Boston. We cannot do better than repeat them here. They are substantially as follows :

The School Committee might adopt some such plan as the following: A brief document couched in popular terms could be circulated among the teachers in the public schools, explaining the symptoms and causes of near-sight, and giving instruction in the use of the test-types of Snelling or Monoyer. Each school should be provided with one or both of these cards, the price of which is trifling. The card itself should be hung in a room of sufficient length and illuminated artificially at the time of examination, thus securing uniform intensity of light on every occasion. At his entrance into the school, each pupil should have his vision tested by the card, in each eye separately, and a record kept of the result. This examination might

be repeated, at least once in six months during school life, and any change noted.

Thus far the whole matter may safely be left in the hands of a tolerably instructed teacher. If now a child, that has previously had perfect sight, is observed to see less and less on successive trials, the assumption is that near-sight is commencing. The family should at once be notified and advised to apply to their physician.

Another Hygienic question presents itself for our consideration, and that is the question of exercise. In our High School, where it is most needed, there is really no gymnastic exercise whatever. This is of much more consequence to the girls than to the boys, and especially to girls between the ages of ten and fifteen. It was our good fortune, a few years ago, to visit several of the best schools for girls in Prussia. There we heard very few recitations, but we saw gymnastic exercise which was of some value. It is not exaggerating to say that exercise was the principal study. We will not say that this was the sole cause of the well-developed limbs and the erect and healthy forms which the pupils presented, but certainly the contrast to the slender and too often stooping figures of our American girls was most marked. In this country, the average High School girl

takes literally *no* exercise during the school-term, unless it be the walk to and from school and an occasional promenade on the street. This should be remedied, even if the list of text-books in the High School had to be reduced one-half.

There are many families in this city, as in every city, where the older children are kept from school to look after the younger ones. The parents, by necessity, are obliged to devote their whole time to their work and cannot attend to the little children. This is a matter of more moment than many would believe, and helps largely to swell the table of illiteracy. If a child is kept at home for a few years after attaining suitable age to attend school, there is little probability of his ever learning to read. We think that an incalculable amount of good might be done in this city by opening a few rooms under the care of competent attendants, where children too young to attend the public schools could be looked after and amused during school hours. This would enable many children to attend school, who now cannot, and in not a few cases it would be their only schooling. Sooner or later, this question will have to be met; and we think it would be better to meet it now, rather than to wait, as is the case with most reforms, until statistics of many

years concerning this wrong can be produced to show the need of reform.

One department of our schools shows itself to be in every way a success. We refer to the Free Evening Drawing School. Aside from the able management of the gentleman in charge of this school, the Chairman of the Committee on Penmanship and Drawing, this success is due to the character of the studies. We have alluded to the tendency of modern instruction, to attempt to cover too much ground, and the necessary superficiality of such an education. Another fault with our schools lies in the character of the studies taught. They are not chosen with reference to permanently useful results. To refer again to Prussia, whose schools are as practical and useful as any in the world; a large share of attention is given in the public schools of that country to instruction in the trades and to the production of skilled artisans. Wherever this kind of instruction has had a fair trial in this country, as in our Free Evening Drawing School, it has worked well. The time will come, and soon too, when this will form an important part of the education of the pupils of our public schools.

The friends of the Public Schools need not feel chagrined at the criticism which to-day is

so freely made against the system. This criticism cannot break down the public schools. By exposing their faults it will strengthen the schools. Let our instructors and our school boards throughout the country see to it that the health of no pupil be impaired by his school duties, and in the second place that every pupil be well grounded in every branch he is allowed to study, even if he never goes beyond the "three R's," — let them see to this, and we will show the world that our public-school system is not a failure.

REPORT ON PENMANSHIP AND DRAWING.

To the School Committee of Lowell:

Again, as the season of reports approaches, your Committee are reminded of their duty in that particular; and therefore desire briefly to call your attention to the department under their charge. As they look back upon their last report, submitted only twelve months ago, they are impressed with the lack of permanence in any conjectures looking to the future wants of a new branch or department in educational matters. In that report, the Committee based their judgment of the future needs of the Free Evening Drawing Schools, upon the records, showing the ratio of increase during the last five years, and congratulated themselves in the fact, that they had certainly provided for the natural increase for a number of years to come. The number of applications received on the opening night this year only shows how poorly they had interpreted the public favor in which these schools are held. The last season of the schools, in nearly all respects, met the expectations of the Committee, and the standard of work was well maintained. The new department—that of Modeling—started off with large membership, but through lack of systematic instruction, the interest could not be kept up, and the attendance gradually diminished through the session; although those who remained performed excellent work, creditable to themselves and the school. While this department, for the above reason, failed to fully realize the hopes of the Committee, enough was shown to convince them that it was a department very much needed, and one which, under properly trained and systematic instruction, was capable of accomplishing all that was expected of it, and which would supplement the other departments, and round out more fully our general system. Not at all discouraged, therefore, your Committee at once set to work, and through the summer made such inquiries as were possible, and at last secured a trained teacher, who appears to be well fitted to take

the matter in hand and lead it up to the success anticipated for it from the first. A very consistent two-years' course of work has been laid out for each pupil, which, if faithfully performed, will show systematic graded instruction in this branch, from the most simple forms to complete and elaborate architectural and artistic ornamentation.

The Architectural Classes, under their new teacher, made vigorous strides to the front, and produced work thought to be fully up to the high standard given them by their former instructor; while in the amount of enthusiasm and interest, a noticeable improvement was made.

The other departments, under the same careful instruction as of former years, fully maintained their excellence.

The annual exhibition of the work of the schools was held in Huntington Hall, in June, 1880; the arrangement of the work being substantially the same as in previous years. Large numbers of our citizens visited the exhibition, and it received the usual amount of praise. Whether this exhibition was unusually successful, or for other reasons, when the opening-night was held, this year, applications to the number of over five hundred were handed in. The largest number, and the greatest increase, appeared in the primary department or Free-Hand Class; the applicants in that class numbering one hundred and eighty-eight, as against seventy-five last year. Your Committee were therefore embarrassed at first to provide accommodations for so many, upon so small an appropriation. They, however, without a dissenting voice, voted to employ an additional teacher, and make the school in reality, as well as in name, a *Free Drawing School*, and to accommodate, so far as they could, all who applied, insisting only upon the limitation as to age. To carry out this purpose, they have met with various inconveniences; but such appears to be the interest, on the part of both pupils and teachers, that everything seems to be satisfactory, and the school has now settled down to good earnest work, which promises well for the season of 1880 and '81.

Below we give the whole number belonging, with the various classes and their numbers, viz:—

Architectural Class (advanced)	. . . . .	24
Architectural Class (beginners)	. . . . .	48
Machine Class (advanced)	}	84
Machine Class (beginners)		
<i>Number carried forward</i>	. . . . .	156

<i>Number brought forward</i>	156
Practical Design Class	60
Free-Hand Class	185
Crayon Shading Class	26
Modeling Class	33
	<hr/>
	460

Also the expenses for the last year, in tabulated form, viz:

Paid to teacher of classes in Machine Drawing	\$ 750 00
Paid to teacher of classes in Architectural Drawing	575 00
Paid to teacher of classes in Free-Hand Drawing and Practical Design	1,300 00
Paid to teacher of class in Modeling	400 00
	<hr/>
Total	\$3,025 00
Paid to janitor	\$125 00
Paid for lighting	252 68
Paid for printing and advertising	63 72
Paid for incidentals	420 21
	<hr/>
	861 61
	<hr/>
Total expenditures	\$3,886 61

This school is creditable, not alone to this Board, which, in its wisdom, has matured and encouraged it, but also to the city; and we find that educators from abroad are already using it as illustrative of the practical solution of the problem, how best to interweave into our educational system a certain wise and judicious amount of technical or industrial work. Our appropriation is small, and the good the school is accomplishing is great in comparison. To meet the increased desire, on the part of our citizens, that the present high standard of the school be maintained, will require, for another year, a larger appropriation of money; and the Committee therefore earnestly ask each member of the Board to interest himself in the work, so that when the appropriation is called for, he will readily see the need of it.

In our public schools, from the Primary to High, we have at work systematized instruction, through a most excellent series of textbooks, with the work well and progressively laid out. These books are the result of the last nine years of experimenting in the public schools in the State, and appear to be well-nigh perfect; their aim being to teach *drawing*, that is, the mere manual dexterity, not as

an end, but wholly as a means or instrument for expressing certain forms of knowledge. The Boston schools were last year visited by an eminent artist, sent for the purpose of examining the work by the Minister of Public Instruction in France; and the result of his visit was a commendation of the plan. We are using the same system here, and naturally feel that the results in our own schools will justify the labor and time expended. The faithful and diligent work performed by our special teacher will doubtless recommend itself to all; and we think there is no department in our school-system that has a better hold upon our intelligent, tax-paying citizens, than the one under the direction of this Committee.

Respectfully submitted,

CHAS. H. ALLEN,
L. HUNTRESS, JR.,
S. A. CHASE,
T. H. BRENNAN,
MICHAEL SEXTON,

Committee on Penmanship and Drawing.

REPORT ON EVENING SCHOOLS.

To the School Committee of Lowell:

GENTLEMEN, — Your Committee, on assuming their duties one year ago, were pleased to find these schools in good working order.

We found them distributed as follows :

No. 1, for males and females, in basement of the Green School-house.

No. 2, for males and females, in basement of School-house, corner of Central and Lyon Streets.

No. 3, for males, in Ward Room on Church Street.

No. 4, for males and females, in Mission School building on First Street, Centralville.

No. 5, High School, for males and females, in hall of Worthen Street Primary School-house.

All of these Schools continued to hold their regular sessions until the 27th of February, 1880.

The amount expended for these schools was \$4,634.94.

We believe this money has been judiciously and carefully expended, and the results obtained will be of great value to the scholars, and will also add much to the future welfare of the city.

On Thursday evening, Nov. 4, 1880, the Evening Schools commenced again their regular sessions, with nearly the same corps of teachers as were employed during the previous term, with the exception of the principal of the Evening High School. Mr. Stephen G. Bailey had been the teacher of this school since its organization, and he had worked hard to make it a success. The Committee desire to express their appreciation of his ability and fidelity as a teacher, and to thank him for his personal interest in the advancement of the scholars.

As Mr. Bailey had removed from the city, Miss Mary C. Eno

was selected to fill the position of principal in the same school, and the Committee are fully satisfied with the choice.

The whole number in attendance this year was 1,183, the average attendance being 498, while the number, for the year before, was 1,330, with an average of 486.

There has been no change in the method of instruction in these schools during the year.

At the commencement of the term this year, there was such a large number of French scholars in attendance in the basement of the Green School-house, who could not speak English, it was found necessary to employ a Mr. Parthenais, a thoroughly competent French teacher, and, thus far, he has proved decidedly successful. We believe that another year it will be found advisable to open a separate Free Evening School for this class of scholars.

The teachers in all of the Evening Schools inform us, that there has been this term a very marked improvement in the order and decorum of the scholars attending them, and that they are generally an older class of scholars than they have been in previous years.

Believing these schools have proved to be a success, we advise their continuance.

We beg to present herewith a Summary of the Attendance, etc., for the year 1880:—

SUMMARY.

SCHOOLS.	No. of Teachers.	Evenings Taught.	Whole Number.			Average Attendance.		
			Males.	Females.	Total.	Males.	Females.	Total.
High	1	73	32	8	40	15	3	18
No. 1	20	73	439	279	718	107	71	178
No. 2	16	70	152	45	197	143	38	181
No. 3	8	67	91	0	91	68	0	68
No. 4	7	73	98	39	137	39	14	53
Totals	52		812	371	1183	372	126	498

EXPENDITURES.

Paid to teachers of High School	.	.	.	.	.	.	.	.	\$ 146 00
Paid to teachers of other schools	.	.	.	.	.	.	.	.	3,475 50
Paid for janitors	.	.	.	.	.	.	.	.	427 00
Paid for lighting	.	.	.	.	.	.	.	.	237 82
Paid for printing and advertising	.	.	.	.	.	.	.	.	46 50
Paid for books and stationery	.	.	.	.	.	.	.	.	262 72
Paid for sundries	.	.	.	.	.	.	.	.	61 40
									<hr/>
Total	.	.	.	.	.	.	.	.	\$4,656 94

GEORGE C. OSGOOD,

JOHN J. COLTON,

JOHN A. SMITH,

H. J. McCOY,

T. H. BRENNAN,

Committee on Evening Schools.

REPORT ON VOCAL MUSIC.

To the School Committee of Lowell:

Vocal music is now regarded as a permanent element in the educational system of Massachusetts, and pupils of the Primary, Grammar, and High Schools all devote a portion of their time to this branch of instruction. Irrespective of criticism relative to the details of this department, so apparent are the good results, that we feel convinced there are but few who would not regard the banishment of music from our curriculum of study as a long step in a backward and downward direction. In no department of education has there been more marked improvement during the last quarter of a century, and correspondingly there is no study in which there has been awakened so universal an interest, as in this beautiful art, which Mr. Herbert Spencer regards as the highest in its ministrations to human welfare. Banish from society the pleasure which music affords; remove from the church that portion of the service over which it holds supreme control; take from childhood the love of Song; from manhood the refinement of its influence,—and what substitute shall quicken the heart with gladness as the years glide by; what shall move the spirit of the worshipper; what shall give to social life its elasticity and pleasurable excitements? That good results are derived from having our children taught music in the schools will not be denied by even the unfortunate few who “have no music in their souls”; while those who are moved by the “concord of sweet sounds” need no argument to show the importance which is attached to this study in every complete system of liberal and thorough education.

With regard to the department of music in our own schools, the results during the past year are very satisfactory. The Committee speak from personal observation and examination of classes in all the grades, from the Primary to the High School.

Mr. George F. Willey, the gentleman who is employed as special instructor, is an earnest, faithful, painstaking teacher. His long experience in this branch of the profession, and his thorough knowledge of the system in use render him peculiarly qualified for the position which he holds. The regular teachers in the various grades seem to have co-operated with him, and in the matter of drill and exercise of the lessons assigned have followed his directions with fidelity and care.

When Primary-school children can sing even simple passages by note and in time, when Grammar-school scholars can read and sing at sight and in parts exercises which may be written on the black-board, and which they have never seen nor heard before; when the pupils of the High School can answer correctly such questions in theory as were put to them, explain intelligently the transposition of the scales, tell the reason for the different signatures, and sing with accuracy and expression quite elaborate music written in three or more parts, it is evident that instruction has been systematically and patiently given by somebody who is competent to teach. The ideal of this instructing power is perfect co-operation of competent regular teachers with the special supervising instructor. The one cannot do the work without the help of the others; the latter cannot satisfactorily do it without the guidance of the former. While the Committee cannot fail to notice a great difference among the teachers as regards their ability in this work, they are desirous of giving credit in nearly every instance for faithfulness, and to the teachers in the lower grades they would award special praise for patience and fidelity.

Here it is, in the lower Primary grades, that the work must begin. It is natural for most children to sing, and scientific men claim that *all* may learn to sing, provided they are taken early enough and put into proper training. The child hears certain sounds until familiar with them, then he is told to imitate them, and in doing so to use a smooth intonation, and above all to avoid a noisy use of the voice. After he can recognize and make these sounds he is taught what they are called, then in proper time he is shown the notes or written signs expressive of the sounds which he has heard and imitated. Thus childhood learns to sing, and thus it is placed in the line of a study, compared with which it has been truthfully said "there is none that can give surer promise of present pleasure, of future occupation possibly, and always of refined enjoyment."

During the past few months a plan has been adopted substantially

like the one which prevailed some years ago, whereby the special teacher of music is required to visit every school, including the Primaries, at a certain specified time, so that both scholars and teachers know just when to expect him and can plan accordingly. We already see the benefits of this change especially in the lower grades. We have also put the Fourth Music Reader, which was in use in the High School, into the two upper rooms of the Grammar Schools, and have supplied its place with an advanced book of the same series known as the High School Music Reader. We think it will be seen that this change also was wisely made.

It is the aim to give our scholars a thorough understanding of the elementary principles of the art of music; to train them to sing by note, at sight, with good quality of utterance, and with proper expression, so that if after school-days are over any may be desirous of carrying this study to a greater length, they may feel certain that the foundation is correct and sure.

The prevailing plan of the workings of this department has received the approval of a majority of this Board. Your Committee are not in entire accord with reference to some of the details of the system, but with commendable generosity and courtesy minor differences of opinion have been laid aside. There never was a time when there was more encouragement to look for good results in this study than the present. We hope the time is not far distant when an opportunity may be given for a public exhibition of the *modus operandi* of this department from the lowest to the highest grade. In the mean time we invite public inspection; we are willing to meet impartial and intelligent criticism.

To some of us it seems strange that the *utility* of the study of music in our public schools should ever be questioned. It is simply another aspect of the endless debate regarding the meaning attached to the word *practical*, concerning which argument seems useless. "Teach the children substantial facts," it is said; "therein is power." True, but what is power? A paving-stone has more substance, and if it falls upon the toes gives evidence of greater power than a piece of paper. But suppose that on the paper there were written words of authority whereby four millions of people were emancipated from bondage, then there is a sense in which the slip of paper represents more power than the stone. The spiritual and emotional natures of children have an economy of their own which cannot with impunity be neglected. The power of song is older, and just as real as that of the "three R's," and because

its influence is elevating will outlast them all. There are facts which do not relate exclusively to the senses, and there are practical things which belong to such facts. Those studies which inspire grand ideas and awaken beautiful sentiments, prominent among which is music, are as practical as those which teach to wield the pick-axe or to build a cotton-mill. The fallacy lies in applying the test to only one side of the question. What do we learn from Shakspeare, Tennyson, and the great masters of song? In a certain sense nothing, absolutely nothing. From Miss Parloa's book on cooking, however, we may learn something new in every line and in every paragraph. Here one may acquire information in every sentence, and may take step after step in the line of progress, the end of which may be dyspepsia and "vexation of spirit." But for these reasons will you place cookery on a higher plane than poetry or the art of song? The thought of De Quincey is appropriate here. Speaking of æsthetic studies, he says, "What we owe to them is *power*; that is, exercise and expansion to our own latent capacity of sympathy with the infinite, where every pulse and each separate influx is a step upward, — a step ascending, as upon a Jacob's ladder, from earth to mysterious altitude above the earth."

Among the Greeks music was considered an important item in the education of youth. The lyre of Apollo was the source of inspiration in the forum, the temple, and on the field of battle. Milton in his great tract on education advocates with earnestness the maintenance of the same theory. Why is Germany the foremost nation of the world in musical culture? Because she insists that her children shall learn to sing. To-day the English people, through a commission of which Mr. Hullah is chairman, are trying to rival Belgium and Holland in the thoroughness of musical instruction in their public schools. Shall the people of New England rest satisfied with a lower standard? We trust they will not.

SOLON W. STEVENS, *Chairman*,
H. J. MCCOY,
MICHAEL SEXTON,
JOHN J. COLTON,
GEO. C. OSGOOD,

Committee on Music.

REPORT OF THE SUPERINTENDENT.

Gentlemen of the School Committee:

In compliance with the requirements of your Regulations, I respectfully present the following reports for the year 1880.

SUMMARY OF STATISTICS.

Value of real and personal property	\$41,102,016 80
Population (1875)	49,677
Population (1880)	59,485
Number of polls	14,039
Increase for the year	1,441
Number of children in the city between five and fifteen years, May 1, 1880	9,121
Ward One, 1,541; Ward Two, 1,205; Ward Three, 1,969; Ward Four, 1,338; Ward Five, 1,706; Ward Six, 1,362.	
Increase for the year	728
Number of public schools in the city	91
One High, eight Grammar, one Intermediate, two Mixed, and seventy-nine Primary.	
Increase for the year	7
Number of teachers employed in them, not including tempo- rary assistants	160
High School: two males, eight females	10
Grammar School: eight males, fifty-eight females	66
Intermediate School: one female	1
Mixed Schools: two females	2
Primary Schools: seventy-nine females	79
One teacher of penmanship and drawing	1
One teacher of vocal music	1
Increase for the year	7

Number of temporary assistants employed on account of fullness of schools	24
High School	1
Grammar Schools	1
Primary Schools	22
Average number of scholars belonging to all the schools .	6,688
High, 316; Grammar, 2,560; Intermediate, 38; Mixed, 52; Primary, 3,722.	
Increase for the year	149
Average attendance in all the schools	6,045
High, 300; Grammar, 2,344; Intermediate, 34; Mixed, 45; Primary, 3,322.	
Increase for the year	81
Average number belonging to each teacher	39.2
High, 29.8; Grammar, 38.2; Intermediate, 38; Mixed, 26; Primary, 43.6.	
Average per cent. of attendance	90.4
High, 95; Grammar, 91.5; Intermediate, 90; Mixed, 86.5; Primary, 89.2.	
Average cost of each scholar, for tuition only, based on the average number belonging	\$14 34
High, \$29.81; Grammar, \$17.12; Intermediate, \$17.18; Mixed, \$23.43; Primary, \$10 96.	

The salaries of the teachers of music and penmanship, are divided among the different grades of schools, in proportion to the time spent in them.

RECEIPTS AND EXPENDITURES.

RECEIPTS.

Balance undrawn Jan. 1, 1880	\$ 2,580 64
Appropriated and assessed	130,000 00
Received from transfer	11,000 00
Received from other sources	806 46
Total amount standing to the credit of schools . . .	<u>\$144,387 10</u>

EXPENDITURES.

Paid for instruction to teachers of day schools:	
High School	\$9,221 51
Grammar Schools — Bartlett	\$5,628 49
Colburn	4,799 33
Edson	7,260 88
Franklin	4,579 19
Green	5,547 17
Amounts carried forward	\$27,815 06
	<u>\$9,221 51</u>

Amounts brought forward \$27,815 06 \$9,221 51

Paid for instruction to teachers of day schools (*continued*):

Grammar Schools — Mann	4,178 29	
Moody	5,694 97	
Varnum	4,612 79	
	<hr/>	42,301 11
Intermediate School, No. 1		600 00
Mixed Schools		1,112 50
Primary Schools		40,661 88
Teacher of penmanship and drawing		1,040 00
Teacher of vocal music		1,000 00
		<hr/>

Total paid for instruction in day schools, exclusive of Mill Schools, \$95,937 00

There were also paid for Evening Schools:

For instruction	\$3,498 00
Books, etc.	306 48
Gas	232 14
Janitors and incidentals	551 58
	<hr/>
	\$4,588 20

Evening Drawing Schools:

For instruction	\$3,179 25
Gas	254 99
Janitors and incidentals	367 28
	<hr/>
	3,801 52

Mill Schools	206 44
Janitors for day schools	8,447 70
Fuel	559 90
do.	5,889 42
Water	926 68
Repairs, etc., by Superintendent Public Buildings	1,189 73
Printing and advertising	438 67
Books for indigent children	2,258 47
Record books, binding, etc.	50 40
Printing, binding, and distributing school reports	498 80
Books, charts, etc., for general use	589 37
Taking census	259 35
Drawing School exhibition	138 81
Graduating exercises, High School	57 36
Salary of Truant Officers	1,508 33
Salary of Superintendent Public Schools	2,100 00
	<hr/>

Amounts carried forward \$33,509 15 \$95,937 00

<i>Amounts brought forward</i>	. . . . .	\$33,509 15	\$95,937 00
Changing books	. . . . .	1,375 73	
Apparatus for High School	. . . . .	150 00	
Miscellaneous	. . . . .	4,620 98	
		<hr/>	39,755 86
Total expenditures	. . . . .	\$135,692 86	
Balance undrawn Jan. 1, 1881	. . . . .	8,694 24	
		<hr/>	\$144,387 10

SCHOOL-HOUSES.

Balance undrawn Jan. 1, 1880	. . . . .	\$ 5,994 77	
Appropriated and assessed	. . . . .	32,000 00	
Receipts from all sources	. . . . .	1,164 33	
		<hr/>	
Amount standing to the credit of school-houses	. . . . .	\$39,159 10	
Expenditures	. . . . .	33,278 04	
		<hr/>	
Balance undrawn Jan. 1, 1881.	. . . . .	\$5,881 06	

In May, last year, one hundred and forty-seven inhabitants of that part of Ward Five, known as "Little Canada," petitioned the Committee for a school-house in that locality; and the Board instructed the Committee on School-houses to provide suitable accommodations for two Primary schools there. While considering the subject, that Committee visited the school-houses on Race and Cabot Streets, and were so impressed with the condition of things on Race Street, that they recommended to the Board, at the June meeting, the expediency of selling that property, and furnishing accommodations in some other locality for the scholars attending there. In September, the Committee on School-houses reported that negotiations were about being concluded with outside parties for temporary accommodations for one hundred scholars in "Little Canada," and recommended that the City Council be requested to furnish permanent accommodations for them; also, suitable accommodations for the schools on Race and Cabot Streets. The report was accepted and adopted; and the City Council were requested to carry out the wishes of the Board. In November, after an inspection of all the localities named above, a resolution was presented in the Board of Aldermen, by the Chairman of the Committee on Education, authorizing the Committee on Lands and Buildings to purchase a lot

of land on Ford Street for school purposes. This resolution was referred to the Council of 1880, and in regular course to the Committee on Education, with requests of the Board for *additional* accommodations for scholars in Wards Three, Four, and Five, and the High School; and more *suitable* accommodations for scholars attending Primaries No. 1 and No. 3, on Kirk and Paige Streets.

The announcement from the pulpit of St. Patrick's Church, that a parochial school would be opened this year in the neighborhood of that church, and the work upon the foundation of a house for a parochial school in Belvidere, warranted the statement made in my last report, that probably no *additional* accommodations for scholars would be needed in Wards Three or Five this year; as the parochial schools to be opened in September, in High Street Square and on Suffolk Street, would draw from the public schools a large number of scholars, thus making room for an equal number of new scholars. The number of seats that would be vacated by those withdrawn, was estimated at about twelve hundred, half of which would be in the Mann School-house, and the school-houses on Common, Race, and Cabot Streets.

A special meeting of the School Committee was held March 22, for the purpose of taking action upon the matter of school accommodations, that the City Council, at their meeting to be held the next evening (23), might be advised of the wants of the Committee. After careful consideration, it was "Resolved, That the City Council be requested to furnish suitable accommodations for the children attending Primaries One and Three, on Kirk and Paige Streets; also, that suitable accommodations be furnished for children attending the Primaries on Race and Cabot Streets; also, that a suitable lot of land be purchased in the neighborhood or north of Sixth Street, Centralville, and a Primary school-house be erected thereon, capable of furnishing accommodations for four schools; also, that a lot of land be purchased in the neighborhood of Wilder and Westford Streets, of suitable size, and a building of ten rooms, for Grammar-school purposes, be erected thereon, the expense of such purchase to be defrayed by special appropriation."

The request of the Committee was favorably considered by the City Council, and the Committee on Lands and Buildings was directed to carry out the wishes of the School Committee, so far as the appropriation for school-houses would allow. The first resolution, passed by the Council April 16, directed the Committee on Lands and Buildings "to secure a lot of land in the vicinity of Ford

Street, suitable for a Primary school-house." The Committee proposed, should they secure the lot, to erect a school-house capable of accommodating three schools, in addition to those on Race and Cabot Streets. This plan, carried into effect, would have furnished ample and suitable accommodations for all scholars for whom relief was asked.

Unfortunately, no lot could be obtained, nor could the Cabot Street lot be enlarged by adding to it on either the Cabot or Ford Street side.

It was then suggested that partial relief could be obtained by the erection of a two-story school-house on Cheever Street, for the smaller French children attending the schools on Race Street, and the two lower rooms on Cabot Street. On application to the agent of the Locks and Canals, a lot of land, one hundred feet square, at the corner of Cheever and Aiken Streets, was leased to the city for school purposes, for fifteen years, at a nominal rent. June 8, a resolution passed the City Council, directing the Committee on Lands and Buildings to build a school-house on the lot, the cost not to exceed \$3,000. It was built by the Superintendent of Public Buildings, and was ready for use at the beginning of the fall term. It resembles the other wooden two-story school-houses built during the last ten years, differing only in being a few feet narrower and shorter. Its cost was \$3,453.94.

The resolution for purchasing land for a school-house in Centralville passed the Council April 29; for building the house, July 14. The building was finished the first of November.

It is a two-story wooden building, eight feet longer and three feet wider than the house on Cheever Street; has wardrobes for the children, and is thoroughly built and well furnished. It stands upon a lot of land nearly square, containing 10,730 square feet, and cost about \$7,500. It was understood, when the Board acted upon the matter of school-houses, that that in Centralville should be built of brick, and contain accommodations for Primaries 46 and 47, now occupying rooms in the Varnum School-house; and for children beyond Sixth Street as far as the city line. Circumstances resulted in causing wood to be substituted for brick, two rooms for four, and Tenth for Sixth Street, thus leaving one of the Primaries in the Varnum School-house unprovided for.

The school-house on Kirk Street, it is confidently believed, will, when finished, afford excellent quarters for Primaries No. 1 and No. 3, on Kirk and Paige Streets. Owing to the crowded condition of

No. 3, the Board, as long ago as 1872, asked the City Council for suitable accommodations for the scholars attending that school. What those accommodations for seventy scholars were, any one who will take the trouble to examine the premises now occupied by No. 3, on Paige Street, will see. The request was referred to the Committee on Education of the City Council, and *took its course*, though not the usual one, and continued its course up to the present year, when, seeing it come along in its annual round, it was arrested and disposed of by the Council, who directed the Committee on Lands and Buildings to erect a school-house as requested, on the lot of land purchased for the purpose in 1873. For the last eight years, in every annual report, the attention of the Board has been called to the necessity of suitable accommodations for that school.

After the purchase of the site in 1873, the Committee requested the City Council to erect upon the site a building large enough to cover the whole ground, which should contain rooms for two Primaries, the Art Schools, School Committee, Superintendent of Schools, and Truant Officers. This was suggested in order to prevent any part of the land from being *wasted*. Had a like proposition been made to the Council of 1879 or of 1880, no school-house would have been built this year. With regard to the architecture of the building, nothing needs be said further than that it is not what was expected or desired.*

A resolution to build the Cheever-street house was passed June 8. It was completed in August. A resolution to build the house in Centralville was passed July 14. It was completed in October. A resolution to build the Kirk-street house was passed April 16. It is not yet finished. Since the request made in 1872, twelve new school-houses have been built in different parts of the city, including the brick four-room school-houses on Worthen, Common, and Lyon Streets.

Besides the school-houses on Cheever, Tenth, and Kirk Streets, a one-story brick addition to the High School-house has been completed for the use of the philosophical and chemical departments. It may be used for a laboratory, or to furnish additional sittings if needed. It is large enough for fifty-six sittings, or for twenty benches for students in analytical chemistry.

* "The original plan had the dressing-rooms and a portion of the hall-way in front, thus allowing windows in that portion of the front which has none in the building as built."

A lot of land on Wilder and Pine Streets, for a Grammar School, was purchased in June. It is somewhat irregular in shape, being 200 feet on Wilder Street, 82.22 on New Street (parallel to Wilder), 305.6 feet on Pine Street, and 200 feet on the back line from Pine Street, and contains 42,599 square feet. It cost \$5,280.12.

The City Council declined to make a special appropriation for the purpose of building this house this year, as requested, and the request must be renewed. The school census shows an increase of four hundred and eleven in the number of school children in Ward Four during the last four years; and with the exception of the Powell-street and Dover-street Primaries, no school-house has been built in that Ward since 1846. A house for a Grammar School, and one large enough for four Primary schools, should be built there the coming year. By the action of the Board at its last meeting, there will be two homeless schools in Ward Four, if the scholars in the Grand-street school-house are transferred to the ward-room, and the lower classes in No. 28 take their places in Grand Street.

In the summer vacation, new floors were laid in some of the rooms, and in one entry of the Colburn School-house; new chairs replaced old ones, and several new blackboards were supplied.

Ventilators, like those in the Bartlett School, have been put into the lower rooms of the Edson School; and the upper rooms are to be furnished with them in a few weeks. An addition to the heating apparatus has been made this month (December), by increasing the number of steam-pipes in each room; and an improvement has been made to the privy in the boys' yard.

Something should be done the coming year for the schools on Charles Street, on Church Street, and the school in the waiting-room in Convers Hall.

With regard to Ward Five, I have only to recommend that all the school-houses there be visited at an early date, and while the schools are in session.

The school-houses, generally, have been well looked after by the Superintendent of Public Buildings, but owing to the crowded condition of many of our schools, the grounds and out-houses have not been in the proper condition at all times. In the opinion of the City Solicitor, the Committee on Lands and Buildings has the charge of the school-houses and belongings, and also of the janitors. In fairness, then, that Committee should be held responsible for the condition of the buildings and out-houses, as well as for the manner in which the janitors discharge their duties.

The most difficult subject, however, to manage is ventilation; and it is the more so because there are so many opinions upon methods of ventilating. An agent of the State Board of Health stated to me a few days ago, that the best-ventilated school-rooms he had found anywhere had no means of ventilation except the windows. The upper sashes were lowered to their full extent every half-hour, and remained so for five minutes, the scholars at the same time marching briskly about the room.

SCHOOLS.

The schools have made good progress during the year. Many causes have conduced to bring this about, among which may be mentioned new text-books, new course of study, change in the mode of examining scholars for admission to the High School, supplementary reading in the Primary schools, new methods tried, greater freedom in the use of educational helps, with incentives to activity quickened by the peculiar condition of school-matters in our midst. A change in the course of study, and a new mode of examining for admission to the High School, awaken in the teacher curiosity to find out how large an amount of study is to be done, and perhaps doubt as to the scholar's ability fully to accomplish the task set; new text-books assist the teacher by exciting the scholar to learn the new, and the old if presented in a new form; books and pamphlets, full of pictures and short stories, placed in the hands of little children, change work into play; and new methods of teaching, with the numerous little articles used for amusement and illustration, keep up the interest of teachers and scholars in their school-work.

When a teacher succeeds in accomplishing a great deal by new and easy methods, the rumor goes abroad, and other teachers are eager to find out the secret. There are, I am happy to say, teachers in our schools who do more good in this way, than they know, among their associates in teaching, by their earnest efforts to improve themselves. There is, also, a generous emulation sometimes perceived among teachers, which inures to the benefit of the scholar, and which deserves commendation. I do not mean that which leads a teacher to secure the largest attendance, for the sake of making a good report, but that which leads her to discharge her duties in a way to make the children, under her charge, good scholars, and her school as nearly like a pleasant home as, in the nature of things, it

can be. Another motive, which has spurred some teachers to zeal in their labors, has been noticed; but as it is not the purest, I will not further allude to it.

The number of schools under the supervision of the Committee is ninety, besides the Evening and Drawing schools kept in the winter, the Mill schools in the summer vacation, and the Reform School at the City Farm.

REFORM SCHOOL.

This school is under the charge of Mr. Wm. A. Lang. His purity of character, his zeal, and his many accomplishments eminently fit him for the work, in which he has spent twenty-five years of his life, and which he thoroughly loves. To give a clear idea of his various duties, I present the following table, which forms a part of his report to the Overseers of the Poor.

The school is classified as follows:

OPENING EXERCISES.

Reading of Scripture and our Lord's Prayer.

IN ARITHMETIC.

Bradbury's Eaton's Practical Arithmetic, first class	.	.	.	.	4
“ “ “ “ second class	.	.	.	.	3
Colburn's Intellectual Arithmetic, first class	.	.	.	.	6
“ “ “ second class	.	.	.	.	5
“ “ “ third class	.	.	.	.	9
“ “ “ fourth class	.	.	.	.	13
Walton's Primary Arithmetic, two classes	.	.	.	.	15

IN GEOGRAPHY.

Guyot's New Intermediate, Massachusetts Edition, first class	.	.	6
“ “ “ “ “ second class	.	.	5
“ Elementary, Primary classes	.	.	14

IN SPELLING.

Worcester's New Pronouncing Spelling Book, first class	.	.	.	6
“ “ “ “ “ second class	.	.	.	13
Hillard's Third Reader, spelling and defining	.	.	.	10
Franklin “ “ “ “	.	.	.	10
“ Second “ “ “	.	.	.	8
“ Primer . . . . .	.	.	.	9

IN READING.

Franklin	Fifth Reader	.	.	.	.	.	.	.	.	.	.	6
"	Fourth	"	.	.	.	.	.	.	.	.	.	6
"	Third	"	.	.	.	.	.	.	.	.	.	10
"	Second	"	.	.	.	.	.	.	.	.	.	9
"	Primer, first class	.	.	.	.	.	.	.	.	.	.	3
"	" second class	.	.	.	.	.	.	.	.	.	.	6
Hillard's	Third Reader	.	.	.	.	.	.	.	.	.	.	10
"	Intermediate Reader	.	.	.	.	.	.	.	.	.	.	6

IN HISTORY.

Anderson's History of the United States,	first class	.	.	.	.	2
“ “ “ “ “	second class	.	.	.	.	4
“ “ “ “ “	third class	.	.	.	.	5

IN WRITING.

Dunton's	No. 6	.	.	.	.	.	.	.	.	.	.	2
"	" 4	.	.	.	.	.	.	.	.	.	.	4
"	" 3	.	.	.	.	.	.	.	.	.	.	3
"	" 2	.	.	.	.	.	.	.	.	.	.	6
"	" 1	.	.	.	.	.	.	.	.	.	.	10
Have taught to write their name on slate											.	14
Number in school Jan. 1, 1880											.	65
Boys committed during the year 1880											.	58
Pupils discharged during the year 1880											.	62
Number attending school at the present time											.	60
Average monthly attendance for the year											.	58
The number instructed during the year											.	146
Pupils in the school under sentence											.	39
Males, 37; females, 2.												
Pupils in the school not under sentence											.	21
Males, 13; females, 8.												

THERE WERE COMMITTED FOR THE FOLLOWING OFFENCES:

Larceny	.	.	.	.	.	.	.	.	.	.	.	14
Vagrancy	.	.	.	.	.	.	.	.	.	.	.	8
Malicious mischief	.	.	.	.	.	.	.	.	.	.	.	1
Truancy	.	.	.	.	.	.	.	.	.	.	.	34

MILL SCHOOLS.

Two Mill schools were opened this year: one in the Colburn, and one in the Worthen-street School-house. The teachers of the first school were Belle G. Dunlap and Marion E. Greene; of the second school, Belle F. Batchelder and Marietta McAvoy.

The following is their report:

COLBURN SCHOOL-HOUSE.

Length of session	6 weeks
Whole number of scholars: Males, 67; females, 2	69
Average attendance	19
Average age at close	11
Mill certificates given	16

WORTHEN-STREET SCHOOL-HOUSE.

Length of session	6 weeks
Whole number of scholars: Males, 43; females, 8	51
Average attendance: Males, 21; females, 5	26
Average age at close	11
Mill certificates given: Males, 20; females, 5	25

In the Worthen-street School, besides the whole number given, the names of thirty scholars were taken who attended the school less than five days. The schools were well kept, and no doubt profitable to the scholars.

The cost of maintaining them was:

For instruction	\$135.00
For books	71 44
<hr/>	
Total	\$206 44

The expense on account of janitors is not added, as they had other duties to discharge about the building.

The Intermediate School, on Powell Street, is composed of scholars qualified for a Grammar School, who live so far from one as to make it inconvenient for them to attend. They continue in this school until qualified for the second class, when they are transferred to either the Edson or Franklin School. Owing to the locating of the mill of the Shaw Stocking Company on Smith Street, quite a village has grown up in the neighborhood; and the school has increased in numbers accordingly. The number belonging at the close of the term ending December 20, was forty-six, seven more than at the close of the corresponding term last year. Considering the number of classes, and the great variety of studies, the duties of the teacher are very burdensome; and an assistant would be of great service there. The school should be moved into the Grammar School-house, on Wilder Street, when completed, and the building given up to Primaries.

The relations existing between the Primary and Grammar schools are so close, that I have thought it best to divide them into groups, for the purpose of giving a clearer idea of the workings of the system now in operation.

First—Belvidere District. Moody School and five Primaries: two of the upper and three of the lower grade. (Primaries 37 and 72 discontinued.)

Second—Centralville District. Varnum School and eight Primaries: three of the upper and three of the lower grade, and two ungraded.

Third—Lawrence Street District. Colburn School and ten Primaries: five of the upper and five of the lower grade.

Fourth—Edson School District. Edson School and twenty-one Primaries: eight of the upper, two of the middle, ten of the lower grade, and one ungraded.

Fifth—Ward Four District. Franklin School and six Primaries: two of the upper, one of the middle, and three of the lower grade, besides Mixed School No. 1 at Middlesex Village.

Sixth—Green School District. Green School and seven Primaries: three of the upper and four of the lower grade.

Seventh—Mann School District. Mann School and seven Primaries: two of the upper, two of the middle, two of the lower grade, and one ungraded.

Eighth—Ward Five. Bartlett School, Mixed School No. 2, Varnum Avenue, and twelve Primaries: three of the upper, one of the middle, five of the lower grade, and three ungraded.

Scholars are promoted to the Grammar schools from Primaries of the upper grade, and ungraded schools.

From these sources, there were received into the Grammar schools in September, six hundred and twenty-two scholars; there were sent seven hundred and eighty-two. The number received in September, with the number of vacant seats in each school at the close of the term, was as follows:

	Scholars received from Primaries.				Vacant seats.
Bartlett	99	.	.	.	24
Colburn	74	.	.	.	69
Edson	132	.	.	.	47
Franklin	61	.	.	.	28
Green	73	.	.	.	74
Mann	58	.	.	.	15
Moody	66	.	.	.	154
Varnum	59	.	.	.	68

The number of vacant seats in the Colburn, Moody, and Varnum Schools, is largely owing to the opening of the parochial school in Belvidere.

The number of schools of the upper grade, and schools not graded, connected with the different Grammar schools, is as follows :

Bartlett	6	Colburn	5
Edson	9	Franklin	2
Green	3	Mann	3
Moody	2	Varnum	4

Thirty-four in all, same as last year. The number of schools that supply these with scholars is forty-five, eleven more than last year. The number of Grammar schools remains the same as last year.

The cause of the increase in the number of schools of the lowest grade, is the large increase in the number of young children in the city. The number of this class, that entered last term, and that had never attended any school before, was seven hundred (one-third of whom were in Ward Five and on Race Street), a sufficient number to fill fourteen school-rooms. It will be seen that the graded system is being severely tried by the great increase in the school population. Ward Five affords the most conspicuous example. There were in the Bartlett School, at the close of this year, four hundred and three scholars ; in the Primaries connected with it (including Nos. 10 and 63 on Race Street), seven hundred and thirty scholars, an average of sixty-one to a room. Had the parochial school been opened in September, as was expected, it would have afforded all the relief needed.

Ward One, and that portion of Ward Two on the south side of Merrimack River, have, and are likely to have, sufficient accommodations for several years.

The schools in Centralville will depend very much upon the settlement of the bridge question.

In Ward Three, in connection with the Edson School, there are two large schools — one in the Lyon-street School-house and one on London Street. That on Lyon Street, however, is the only one worthy of much consideration, because there seems to be no remedy but the sending of about thirty of the children to the schools on Carter Street. I suggest that a Grammar School-house on Carter Street would relieve the Edson School and other schools in Ward Three.

Ward Four has a crowded school on Dover Street, two schools in

the Ward-room, and four hundred and ninety-six scholars in the Franklin School-house, besides those on Elliott Street, which send scholars to the Colburn, Edson, and Franklin Schools. The two schools in the Ward-room are formed from Primary No. 50, which occupied the school-house on Grand Street. Its average number belonging was seventy-five. These facts, added to what has already been mentioned, give Ward Four a claim upon the city for a new school-house.

Ward Six will need no more accommodations for several years.

The effect of the increase in the number of school children in Ward Three, during the last three years, is seen in the size of the classes in the Edson School, reported December 10: First class, 47; second, 44; third, 41; fourth, 53; fifth, 31; sixth, 122; seventh, 108; eighth, 112.

In the different groups of schools, as I have presented them, there are, with the exception of the Colburn and Varnum School groups, more schools of the lower than of the upper grade; and it is a question whether a return to the ungraded system may not be a necessity. The returns from the teachers show 1,030 scholars in the upper grades, and 1,695 in the lower grades.

I have said that the schools show a manifest improvement on last year. It is a matter of surprise that they have done so well, when we consider the difficulties they have had to encounter. What was said in commendation of the teacher of Primary No. 10, last year, might be said of many others this.

With regard to the Grammar schools, I can speak most favorably. The change in the mode of examining scholars for the High School produced a little ripple of excitement; but the plan is approved, and I think there will be a good report next July. Though the standard for admission is thought to be somewhat high, yet I would not advise any change in the rule or the standard the coming year. The new course of study is considered an improvement upon the old one, and its requirements are lived up to. I suggest that some good text-book on Bookkeeping be adopted for use in the Grammar schools, as quite a number of scholars in the upper grades have expressed a desire to pursue that study. The metric system will be taught in its proper place, and the scholars' knowledge of it be tested in the July examination.

The changes among the teachers have been as follows: Miss Holt, an experienced and faithful teacher in the Bartlett School, resigned in July, after a service of twenty-four years. Miss Amy L. Tucke,

a graduate of the High School and of Salem Normal School, was elected to her place.

Mr. Albert L. Bacheller was transferred from the Colburn School to fill the vacancy in the Green School, caused by the death of Mr. Albert L. Fisk, which occurred the 15th of January. Mr. Fisk was born in Lowell, went through her public schools, was a graduate of Harvard College, and before his election to the Green School had had experience as a chemist in the Merrimack Print-works. He also served as Superintendent of Public Schools in the West. He was a ripe scholar, a devoted teacher, and faithful in all his relations in life. He staid in his school till the close of the Fall term, then went home to rest.

Mr. George W. Howe, an old resident of Lowell, and a graduate of Bowdoin College, was elected Principal of the Colburn School, after the transfer of Mr. Bacheller to the Green School.

Mr. Frank F. Coburn, the popular and successful Principal of the Franklin School, was transferred to the High School in August.

Mr. Charles W. Morey, a native of Lowell, a graduate from the High School and from Amherst College, was elected to succeed Mr. Coburn. During his four months' experience, he has shown marked ability in his calling; and the Franklin School has maintained its standing under his management. Miss Annie C. Howe, assistant in the Green School, — a very good teacher, — resigned in July, having received a better offer.

Misses Hattie H. Eaton, Nellie F. Baker, and Mary O. Kidder resigned their positions in obedience to a sense of duty. Miss Helen A. Bowers was absent from her school on account of sickness, the whole of the last school year, and being unable to return to her school, Miss Katie Fay was elected in her place.

Miss Ida T. Hardy, elected to Primary No. 71 one year ago, died, after a short sickness, of typhoid fever in August. She was a very estimable young lady, loved by her scholars, and highly esteemed by their parents.

HIGH SCHOOL.

The number of scholars received from the Grammar schools this year, was one hundred and sixteen, thirty-one less than last year. This is owing partly to raising the standard for admission, and partly to the smaller number of applicants. Last year, twenty-four extra seats were placed in the hall, on account of the crowded state of the school, and a temporary teacher was employed to instruct them. The school is now full, but not crowded.

Mr. Lord, teacher of the sciences, resigned his situation in July, to accept the position of Principal of the Lawrence High School. That he was an excellent teacher, was proved by his successful management of the High School during the absence of the Principal, for six months, in 1874, on account of sickness. He was a valuable man in the community, and held in high esteem by all who knew him. Lawrence was fortunate in securing his services.

Mr. Coburn, his successor, is a graduate of Amherst College; knows our school system thoroughly; and is showing the same interest in his new duties that distinguished him as Principal of the Franklin School, and he will doubtless be as successful.

The addition to the High School-house was made to relieve the school from the offensive gases arising from the laboratory in the cellar. Whether the study of chemistry shall receive the attention that it has for several years past, is a matter for the Committee to settle.

The question of the relative importance of different studies, and especially whether a young man should be qualified to enter, on his graduation from school, upon the practical duties of life, is one that is being continually discussed, and which will never be settled to the satisfaction of everybody.

Upon this subject I have received the following communication of the Principal of the High School:

The assertion is often made, that our High schools do not directly prepare their pupils for the practical duties of life. The proper answer to this charge is the equally positive assertion, that they *ought* not so to prepare them. As, in the natural education of the physical powers, a long period of youthful sports and gambols, which give equal and symmetrical development to all the powers, should precede the learning of a trade, which demands the exertion of only a part of these powers; so, in the culture of the intellect, a like period of general study should precede the time when some particular pursuit demands the exercise of only a part of its powers. He would be a stupid and cruel father, who, because he designs that his son shall become a blacksmith, demands that the poor boy, during all his childhood, shall have no sport but pounding with a hammer. Similar to this, however, is the folly of the man who demands that his son shall, at too early an age, be confined to a limited and partial course of study. Such a course may be emphatically practical, but it tends to make an emphatically one-sided man.

Excellent schools have very properly been established for young men, in which the immediate and practical duties and arts of life are taught. Such are our schools of technology, of medicine, of commerce, and of agriculture; but to this class our High schools do not belong. Their appropriate work is to make men and citizens, and not physicians, or artists, or chemists. This

latter class must educate themselves; the former alone can claim instruction at the public expense. Our High schools have already more than they can do to send forth our sons and daughters with minds well trained in the rudiments of learning and the elements of science; having learned, in the school, what it is to study and to think, to reason and to prove. With such a training, the boy soon learns the narrow routine and the technical forms of almost any employment. Such, in fact, are the boys whom, in spite of the popular clamor for a more practical education, our shrewdest men of business seek and employ. Go to our banks and to the counting-rooms of our large corporations, in which our wisest men of business have the control and exercise the appointing power, and you will find, with few exceptions, that the cashiers and clerks there employed are graduates of our High School. The friends of this school take pride in the fact, that the offices of mayor, of clerk, and of treasurer of this city have been, for years, filled by the graduates of the school. What our moneyed institutions most need, is the skilful control of men of well-trained minds. No doubt a man of culture may prove a villain, and when he does, the world resounds with condemnation of his baseness; but where one dollar is lost by rascality, perhaps ten dollars are lost by the blundering stupidity of honest men, who have no breadth of thought or ability to reason, and whose delinquencies are condoned and, perhaps, concealed, because they have really meant no harm.

If the views presented above are correct, our High School should still continue to teach the general truths and the elements of the various branches of study, with the purpose, not of fitting its pupils for special avocations, but of preparing them to act an intelligent part, into whatever sphere of life their fortunes may call them.

These views have recently been put to a practical test in deciding whether the new teacher of the sciences should, in giving instruction in chemistry, devote all his time to teaching the general principles of the science, with the appropriate illustrations and experiments, or should give a large portion of it to applied chemistry and chemical analysis. If the views expressed above are correct, chemical analysis, like civil engineering, mining, and telegraphy, should be taught alone in the schools of science and technology, in which the student has no claim to be educated at the public expense, and in which, very properly, each individual devotes himself to the immediate and practical demands of that avocation in life, which it is his purpose to pursue.

The graduating exercises of the High School class were held Wednesday evening, June 30, in Huntington Hall. The following was the

ORDER OF EXERCISES.

OVERTURE.	—	“Orpheus”	. . . . .	Offenbach.
GLEES.	{	a. “The Nightingale to Home Returns”	. . . . .	Mendelssohn.
		b. “The Bird Let Loose”	. . . . .	Beethoven.
SALUTATORY	. . . . .	Written by Philip J. Farley.		

PHILIP J. FARLEY.

- HIDDEN FORCES *Written by Anna I. Rodliff.*
MARY A. GRAVES.
- REGULUS AT CARTHAGE *Kellogg.*
ARTHUR W. SAUNDERS.
- AMERICAN NOVELISTS *Written by Lola M. Cheney.*
LOLA M. CHENEY.
- TRIO. — “Lift Thine Eyes” “*Elijah.*”
- THE STATUE OF CLAY.
HELEN A. MITCHELL.
- IN BEHALF OF EDUCATION *S. S. Randall.*
JOHN T. MASTERSON.
- KNIGHTHOOD *Written by Mary A. Morse.*
MARY A. MORSE.
- GLEES. { *a.* “Beauteous Waltz” *Taylor.*
 b. “Alpine Echoes” *Emerson.*
- THE AMERICAN FLAG.
JOSEPH E. FARNSWORTH.
- PICCOLO SOLO. — “Vesper Polka” *W. E. Owen.*
- DAS BAECHELEIN *Goethe.*
ANNIE ILSLEY.
- DIGNITY OF LABOR *Written by Mary C. Vose.*
MARY C. VOSE.
- LE BOURGEOIS GENTILHOMME. — Acté II, Scène 6 *Molière.*
Translated and read by
WINIFRED C. HAGGERTY and SUSIE E. CHOATE.
- GLEE. — Semi-Chorus. — “We Come from Fairy Bowers.”
- HUMAN PROGRESS *Written by C. Russell Upton.*
C. RUSSELL UPTON.
- THE CLERK’S TALE *Written by Clara H. Elliott.*
CLARA H. ELLIOTT.
- THE BELL OF ATRI *H. W. Longfellow.*
JENNIE BAILEY.
- BUBBLE HUNTING *Written by Minnie A. Cumnock.*
MINNIE A. CUMNOCK.
- VALEDICTORY *Written by Arthur L. Penhallow.*
JOHN J. HARVEY.
- PRESENTATION OF CARNEY MEDALS
BY SOLON W. STEVENS, ESQ.
- PRESENTATION OF DIPLOMAS
BY CHARLES H. ALLEN, ESQ.

SINGING OF CLASS ODE { *Written by Louisa A. Barker.*
Music by Alice M. Wight.

Deep down in our hearts there is sadness;
 For the time is fast fading away,
 That has bound us as friends and companions
 Thus far through life's bright, sunny way.
 Though our circle is soon to be broken,
 Though varied and wide be our ways,
 Yet will memory oft gladden and cheer us
 With the thought of the old happy days.

And while journeying over life's ocean,
 Though storms and billows may rise,
 Let us never give up in despairing,
 But press firmly on to the prize.
 Let us think not of fearing or doubting,
 But be faithful and trusting still,
 Doing that which lies next before us,
 With a cheerful and earnest will.

And at last when we enter the haven,
 When the storms and tempests are o'er,
 May the bands here severed and parted,
 Be joined to be loosed never more.
 Then, bravely, in life's earnest duties,
 Let us labor with one accord,
 Remembering that unto the faithful
 There is promised a sure reward.

CARNEY MEDAL SCHOLARS.

Josephine Helen Earl.	John Henry Lynch.
Clara Holmes Elliott.	Arthur Lincoln Penhallow.
Anna Isabel Rodliff.	Hugh Henry Brogan.

GRADUATES.

FOUR YEARS' COURSE.

Joseph Eastman Farnsworth.	Mary Carney Vose.
John Henry Lynch.	Stella Lavon Whitney.
Francis E. McNabb.	Alice May Wight.
Arthur Lincoln Penhallow.	Josephine Helen Earl.
Charles Edward Simpson.	Clara Holmes Elliott.
Charles Russell Upton.	Mary Isabella Goddard.
Fred Atwell Wright.	Mary Adaline Graves.
Louise Ardelle Barker.	Louise Dickinson Greene.
Lola Cheney.	Winifred Catherine Haggerty.
Susie Elizabeth Choate.	Harriet Ann Knowles.
Minnie Alice Cumnock.	Mary Augusta Morse.
Elizabeth Osgood Eaglesham.	Anna Isabel Rodliff.

THREE YEARS' COURSE.

Hugh Henry Brogan.
 Charles Eugene Edson.
 Philip Joseph Farley.
 Asa Wilder Flint.
 Edward Thomas Goward.
 John Joseph Harvey.
 Charles H. Hooke.
 John T. Masterson.
 Frederic Arthur Metcalf.
 Arthur Watson Saunders.
 Redmon Welch.
 Jennie Bailey.
 Carrie Josephine Bailey.
 Minnie Louise Bean.
 Jennie Marie Bennett.
 Alice Bertha Besse.
 Elizabeth Anne Butman.
 Agnes Ward Coburn.
 Flora Amanda Crockett.

Rose Anna Dowd.
 Mary Anna Fay.
 Annie Matilda Goulding.
 Jessie Blanche Greene.
 Ella May Hanchett.
 Nellie Augustine Hunt.
 Annie Augusta Isley.
 Katie Ellen Kelley.
 Susie Ella Litchfield.
 Bridget Theresa Maguire.
 Helen Augusta Mitchell.
 Mary Josephine Murphy.
 Katie Elizabeth McOwen.
 Nellie Florence Newhall.
 Arvilla Hason Ramsdell.
 Inez Blanchard Rice.
 Lizzie Ann Robertson.
 Annie Elizabeth Sanders.
 Etta Watson Sherman.

Helen May York.

ATTENDANCE.

The average attendance in all the schools for the year, is six thousand forty-five; an increase of one thousand fourteen in five years, and of eighty-one over last year. The attendance in the schools in Ward Six, during the term ending Dec. 20, was two hundred and ten less than during the corresponding term last year. The Moody School lost seventy-three; the Colburn School, thirty-four; the primaries in Belvidere, sixty-five; the primaries west of Concord River, thirty-eight.

In Centralville the attendance for the same term, was one hundred one less than last year. Most of this decrease is due to the opening of the parochial school in Belvidere.

In Wards One and Five (not including Pawtucketville) there was an increase in the average attendance over last year, of two hundred and thirty-six. In these two Wards there are three Grammar schools, the Green, Mann, and Bartlett, and twenty-three Primary schools, eleven of which had an average attendance of over fifty last term.

The average attendance to a teacher in these schools, was forty-four.

Supposing that next September four hundred scholars should be withdrawn to form a parochial school on Suffolk Street, there would remain scholars enough in Ward Five to give an average attendance of forty at least to each teacher in the public schools.

The per cent. of attendance this year differs but little from the average of twenty years past. The prevalence of contagious diseases tends to decrease it, more than in former years, because of the order of the Board of Health :

“That no child from any family in which a case of scarlet fever or diphtheria has occurred, or shall hereafter occur, shall, without a written permit from the City Physician, attend any school in this city until the expiration of four weeks from the commencement of the last case in such family. Such length of time shall be certified in writing by a physician or some responsible member of the family, the certificate to be presented to the teacher of the school before the child is admitted.”

One sick child might, under the operation of this order, be the cause of the absence of others that are well.

In the spring it was found that a large number of children in the Primary schools had not been vaccinated, having obtained admission through the thoughtlessness of inexperienced teachers. The matter was taken promptly in hand, and by order of the Mayor, all who had not previously been, were vaccinated, generally in the school-room, by Dr. Leonard Huntress, whose pleasant treatment of the children divested the operation of all of its terrors. For a short time, the attendance was slightly diminished in consequence. On the whole, however, the attendance has been remarkably good.

The truant officers have discharged their duties faithfully, and deserve the confidence of teachers and committee.

Their report for the year is as follows :

Whole number of cases investigated	1,843
Absentees	1,217
Truants	466
Working without certificates	78
New scholars	29
Wandering about the streets	17
Juvenile offenders	36

OF THE ABOVE NUMBER WE

Arrested	69
Sentenced	32
Bailed	37

Visited second time	130
Visited third time	19
Mill certificates issued	1,593

In addition to the above, the Board of Health have reported to us cases of diphtheria, scarlet fever, and scarlatina in two hundred and seventy-two families during the year. We have visited said families and notified them of the rules made by the School Committee in relation to the same.

We find the causes of absence to be about the same as last year, sickness and poverty being the reason in most cases. Some cases we find where the parents are to blame for the absence of their children, allowing them to be out of school on the smallest pretext. In such cases we have advised the parents of the injury they are doing their children; and in most cases they promise better attendance in the future.

The largest number of truants (71) for any one month during the year was in September. the opening of the parochial school on High Street that month, furnishing the boys an excuse to remain away, claiming to be members of said school, when they were not. During the month we were kept busy hunting up such cases, returning them to school again.

The several manufacturing establishments in the city have been visited at different times during the year; and we find the agents, overseers, and others in charge, more particular in relation to the employment of children than heretofore. In relation to the number reported as "Working without certificates" (78), we wish to state that in nearly every case the children had a certificate from their teacher; but the overseers, or others in charge, forgot to send them out to school when their time was up, until notified to do so.

To the School Committee of the City of Lowell, the above report is

Respectfully submitted.

BICKFORD LANG,

WM. H. BERMINGHAM,

Truant Commissioners.

The changes in text-books this year are—In the Grammar schools: Gilbert's Speller discontinued; Thomson's Intellectual Mental Arithmetic, in place of Colburn's First Lessons, in the three upper classes. High School: Hutchison's Physiology for Dalton's, and Cooley's Natural Philosophy for Norton's.

The most important matter brought before the Board this year, is the free text-book system. After being fully discussed, a vote was passed asking the City Council to "consider the expediency of authorizing the School Committee to introduce free text-books into the public schools of the city."

The City Council considered the subject, and, December 28, passed the following ordinance:

"That the School Committee are authorized to purchase text-books for use in the public schools, said text-books to be the property of the city or

town, and to be loaned to pupils under such regulations as the School Committee may provide."

Whether or not the Board of 1881 shall decide to furnish textbooks for all the scholars in the public schools, the passage of the ordinance makes it legal to furnish books for children of indigent parents, as has been the practice for many years, and settles the question of property in said books.

I again acknowledge my obligations to all the members of the Committee for continued confidence and courtesies.

CHARLES MORRILL,

Superintendent Public Schools.

APPENDIX.

APPENDIX.

A.

AN ACT

RELATING TO THE EMPLOYMENT OF CHILDREN, AND REGULATIONS RESPECTING THEM.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows :

SECTION 1. No child under the age of ten years shall be employed in any manufacturing, mechanical or mercantile establishment in this Commonwealth, and any parent or guardian who permits such employment shall for such offence forfeit a sum of not less than twenty nor more than fifty dollars, for the use of the public schools of the city or town.

SECT. 2. No child under the age of fourteen years shall be so employed unless during the year next preceding such employment he has attended some public or private day school, under teachers approved by the school committee of the place where such school is kept, at least twenty weeks, which may be divided into two terms, each of ten consecutive weeks, so far as the arrangement of school terms will allow ; nor shall such employment continue unless such child shall attend school as herein provided, in each and every year ; and no child shall be so employed who does not present a certificate made by or under the direction of the school committee of his compliance with the requirements of this act ; *provided, however,* that a regular attendance during the continuance of such employment in any school known as a half-time day school, or an attendance in any public or private day school, twenty weeks, as above stated, may be accepted by said school committee as a substitute for the attendance herein required.

SECT. 3. Every owner, superintendent or overseer in any establishment above named, who employs, or permits to be employed, any child in violation of the second section of this act, and every parent or guardian who permits such employment, shall for the first offence forfeit a sum not less than twenty nor more than fifty dollars, for the use of the public schools of such city or town.

SECT. 4. The truant officers shall, at least once in every term, and as often as the school committee require, visit the establishments described by this.

act, in their several cities and towns, and inquire into the situation of the children employed therein, ascertain whether the provisions of this act are duly observed, and report all violations to the school committee.

SECT. 5. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

Approved March 16, 1876.

B.

A N A C T

IN ADDITION TO "AN ACT RELATING TO THE EMPLOYMENT OF CHILDREN,
AND REGULATIONS RESPECTING THEM."

Be it enacted, etc., as follows :

SECTION 1. Every owner, superintendent or overseer of any manufacturing, mechanical or mercantile establishment in this Commonwealth, shall require and keep on file a certificate of the age and place of birth of every minor child under the age of sixteen years in his employ, or in the employ of such establishment, so long as such minor shall be so employed, which certificate shall also state, in the case of a minor under the age of fourteen years, the amount of his or her school attendance during the year next preceding such employment. Said certificate shall be made by or under the direction of the school committee of the place where such attendance has been had, or where such establishment is located.

SECT. 2. In case no such certificate shall have been required by such owner, superintendent or overseer, then such employment shall be deemed to have been a violation of the second section of chapter fifty-two of the acts of the year eighteen hundred and seventy-six.

SECT. 3. The truant officers may demand the names of the minor children under the age of sixteen years employed in the establishments above named in their several cities and towns, and may require that the certificates of age and school attendance prescribed in this act shall be produced for their inspection; and if the name and certificate as aforesaid be not produced in any case, it shall be *prima facie* evidence that the employment of such child is illegal.

SECT. 4. On and after the first day of May, eighteen hundred and eighty, no child under fourteen years of age shall be employed in any manufacturing, mechanical or mercantile establishment, while the public schools in the city or town where such child lives are in session, unless such child can read and write. Every owner, superintendent or overseer in any establishment above named, who employs, or permits to be employed, any child in violation of this section, and every parent or guardian who permits such employment, shall for every such offence forfeit a sum of not less than twenty nor more than fifty dollars for the use of the public schools of such city or town.

SECT. 5. Section two of chapter fifty-two of the acts of the year eighteen hundred and seventy-six is hereby amended, by inserting after the word "employed," in the second line, the words "except during the vacation of the public schools."

Approved May 15, 1878.

C.

SALARIES OF TEACHERS.

HIGH SCHOOL.

Principal	\$2,000 00
First male assistant	1,800 00
First female assistant	800 00
Other female assistants, first year	600 00
" " " second year	650 00
" " " after second year	700 00

GRAMMAR SCHOOLS.

Principal (males)	\$1,500 00
Assistants, first year	450 00
" second year	500 00
" third year and after	600 00
Teacher of penmanship	1,200 00
Teacher in vocal music	1,000 00

PRIMARY SCHOOLS.

Teachers first year	\$450 00
" second year	500 00
" third year and after	600 00

TEMPORARY TEACHERS.

Male teachers, for every school-day's service	\$3.00
Female teachers in High School, for every school-day's service	1.75
Female teachers in other schools, for every school-day's service	1.00
And after three months' service	1.25

EVENING SCHOOLS.

Principals, per evening	\$2.00
Assistants, per evening	1.00

D.

SERIES OF QUESTIONS PROPOSED FOR THE EXAM-
INATION OF APPLICANTS TO ENTER THE
HIGH SCHOOL.

JULY EXAMINATION.

QUESTIONS IN HISTORY.

1. Where, when, and under the direction of what company was the first settlement in Virginia made?
2. How did King George's war originate?
3. Give an account of the persecution of the Quakers.
4. Give an account of the first settlement of Pennsylvania.
5. Mention some events of the French and Indian War.
6. For what is the nineteenth of April memorable?
7. What nation first recognized the independence of the United States?
8. What was the object of the union of the New England Colonies in 1643?
9. Mention some of the causes of the Mexican War.
10. Who first settled New York, and from what country did they come?
11. For what will Lincoln's administration be noted?
12. What is a civil war?
13. What was the first great battle of the civil war? Its result?
14. Who was Vice President of the United States during Washington's administration?
15. How did the War of 1812 have its origin?
16. Give an account of Perry's victory on Lake Erie.
17. What was the chief object of Gen. Grant in 1863? Give an account of his success.
18. What important event occurred in Pennsylvania in July of the same year?
19. What President was "impeached of high crimes and misdemeanors"?
20. Give the names of the Presidents from 1860 to the present time.

QUESTIONS IN GEOGRAPHY.

1. Name the Pacific States.
2. What three great rivers enter the Mississippi from the west?
3. What country of South America includes the whole basin of the Orinoco?
4. What are *selvas*, and for what are they remarkable?
5. What is the largest river of Europe?
6. What are the principal mountain chains of Europe?
7. What forms of government have the states of Europe?
8. What do the Russian possessions in Asia include?
9. What countries occupy the extreme southern portion of Africa?

10. Of what does the Chinese Empire consist?
11. What is the extent of land upon the surface of the earth?
12. How do we describe the exact position of a place on the globe?
13. Where is the sun vertical on the 21st of June?
14. Where is the Gulf of Bengal?
15. Bound France.
16. On which side of the Mississippi is the larger part of Louisiana?
17. What great city in Illinois near the head of Lake Michigan?
18. What is the Northern Cape of South America?
19. In what part of Great Britain is Scotland?
20. What country is south of the Caspian Sea?

QUESTIONS IN GRAMMAR.

1. Write a *declarative* sentence and an *exclamatory* sentence.
2. Define an *adverb* and a *preposition*.
3. Write the possessive plural of *child*, *lady*, *wife*, *valley*.
4. Write two sentences, one containing a *transitive* verb, and the other an *intransitive* verb.
5. Write a *compound* word, a word containing a *proper diphthong*, and a word containing a *triphthong*.
6. Write four sentences, the first containing a *qualifying adjective*, the second, a *limiting adjective*, the third, an *adverb of manner*, and the fourth, a *connecting adverb*.
7. Decline *her* and *your* (that is, the words of which *her* and *your* are possessive cases).
8. Write the *three active participles*, and the *three passive participles*, of the verb *write*.
9. Give an example of a *passive* verb, one of a verb in the *emphatic* form, and one of a verb in the *progressive* form.
10. Write the *present and perfect infinitive passive* of the verb *strike*.
11. Write the principal parts of *fall*, *flee*, *fling*, and *fly*.
12. Compare the adverbs *badly*, *bravely*, and *well*.
13. Write a *compound sentence*.
14. Point out a *phrase* and a *clause* in the following sentence: "He will, of course, tell me about it when I see him."
15. In what mood is *strike* in the sentence: "I saw James strike John"?
16. Parse *what* in the sentence: "I heard what he said."
17. What are the subjects in the two following sentences: "Go to the ant." "To be idle is to be poor."?
18. Correct the following sentences and give the reason for each correction: "It is between you and I." "It was me." "Let every one put up their books."
19. Parse *friend* in the sentence: "I asked him to be my friend."
20. Parse *hours* in the sentence: "He was there two hours."

QUESTIONS IN ARITHMETIC.

1. In the number of 385.04, the value of the 8 is how many times as great as the value of the 4?

2. If 453 be taken from 721, the remainder is 268. How is the 6 in the remainder obtained?
3. Reduce 5 miles and 3 rods to inches.
4. Divide £63, 3s., 3d., by 31.
5. Find all the prime factors of 60,060.
6. What is the greatest common divisor of 1326, 1734, and 2142?
7. Add $\frac{5}{12}$, $\frac{1}{8}$, $\frac{5}{30}$, $\frac{2}{7}$, finding the least common denominator, and reducing the answer to its lowest terms.
8. Divide $\frac{17}{3}$ of $\frac{2\frac{1}{2}}{8\frac{1}{2}}$ by $\frac{7}{2}$ of $2\frac{5}{7}$.
9. From $\frac{3\frac{1}{3}}{7\frac{1}{4}}$ of $11\frac{3}{5}$ take $4\frac{5}{6}$.
10. If $2\frac{5}{7}$ tons of hay cost 38 dollars, what will $27\frac{1}{7}$ tons cost?
11. Divide 60.6606 by 300.3.
12. Reduce .52034375 of a ton to cwts., qrs., etc.
13. If 47 per cent. of the scholars of a school are boys, and the number of girls is 106, how many boys are there in the school?
14. Bought a horse for \$118.75 and sold him for \$95. What per cent. did I lose?
15. If \$400 at 10 per cent. amounted to \$498, what was the time?
16. What is the difference between the bank discount and the true discount on \$1050, for 60 days?
17. If 22 men in 4 days can reap $7\frac{1}{3}$ acres of wheat, in how many days will 7 men reap $6\frac{5}{12}$ acres?
18. Find the first two figures in the square root of .555.
19. Find the fourth power of $\frac{2}{3}$.
20. Write the decimals for $\frac{1}{4}$, $\frac{1}{40}$, $\frac{7}{400}$.

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SPELLING.

Fidget, loathsome, veer, ado, inure, sere, receipted, mucilage, missile, ceremonies, grocery, worried, recurrence, bewitch, mementos, enjoyable, gauge, summary, grammar, audacity.

E.

TEXT-BOOKS USED IN THE PUBLIC SCHOOLS.

Hillard's Readers, Franklin Series.

PRIMARY SCHOOLS.

First Reader; Second Reader; Third Reader; Franklin Primary Arithmetic; Smith's Drawing Cards; Miss Stickney's Child's Book of Language.

GRAMMAR SCHOOLS.

Fourth Reader; Intermediate Reader; Fifth Reader; Bradbury's Eaton's Practical Arithmetic; Greene's Grammar; Knox and Whitney's Elementary

Lessons in English; Guyot's Elementary Geography; Guyot's Intermediate Geography, Mass. Edition; Anderson's Common School History of the United States; Worcester's New Pronouncing Spelling Book; Thomson's Intellectual Mental Arithmetic; Colburn's First Lessons in Arithmetic; Duntonian Writing Books; Smith's Drawing Books; Hooker's Child's Book of Nature permitted as a reading book.

HIGH SCHOOL.

Allen and Greenough's Latin Grammar, Cæsar and Virgil; Leighton's Latin Reader; Andrew's Latin Lexicon; Goodwin's Greek Grammar; Goodwin's Greek Reader; Boise's Homer; Liddell and Scott's Greek Lexicon; Eaton's Algebra; Bradbury's Geometry and Trigonometry; Davies' Surveying; Otto's French Grammar; Otto's German Grammar; College Plays, by Bocher; Spier's French Dictionary; Berard's History of England; Pennell's Ancient Greece and Rome; Greene's English Grammar; Hart's Composition and Rhetoric; Quackenbos' Composition; Underwood's Handbook of American Literature; Brooke's English Literature; Swinton's Outlines of History; Martin's Civil Government; Winslow's Intellectual Philosophy; Wayland's Moral Science; Cooley's Natural Philosophy; Steele's New Chemistry; Eliot and Storer's Manual of Chemistry; Kiddle's Astronomy; Dana's Geological Story; Wood's Botany; Hutchison's Physiology; Warren's Physical Geography; Mitchell's Ancient Geography; Fourth Music Reader; Webster's and Worcester's Dictionaries; Berstein's Qualitative Analysis.

F.

COURSE OF STUDY FOR THE PRIMARY SCHOOLS.

FIRST YEAR.

Sixth Class—Monroe's Charts, and Franklin First Reader. Begin with words written upon the blackboard, using the names of familiar objects, and words expressing familiar acts.

Combine words into groups and sentences.

Pay particular attention to *tones* and *inflection*.

Spell the words in columns, by sounds.

Develop the idea of number to ten, by the use of objects. Count to one hundred on the numeral frame.

Teach the construction of letters and figures, and the simplest form of script letters, using slate and blackboard.

Fifth Class—Monroe's Charts, and First Reader. Spell as in Sixth Class.

Teach Roman numerals to L.

Write words, groups of words, and sentences upon the blackboard, and require pupils to copy upon the slate. Give special attention to the forms of the letters.

Add and subtract small numbers, using the numeral frame and objects.

Follow the Grube Method in numbers as far as to 4.

Practise object-teaching, using such objects as are familiar to the child.

SECOND YEAR.

Fourth Class — Second Reader. Practise "Enunciation Exercises" daily. Spell, by letters and by sounds, words in columns and in reading lessons. Continue to teach the simplest forms of script letters.

Teach Arithmetic orally. Grube Method as high as 8.

Third Class — Second and Third Readers. Practise "Enunciation Exercises" as in the Fourth Class.

Teach the simplest forms of script letters as in the Fourth Class, and write sentences from dictation upon the slate.

Teach Arithmetic, using the Franklin Primary, and see that the pupils read the questions fluently and correctly before solving them. Teach multiplication table to 8×8 .

THIRD YEAR.

Second Class — Third Reader. Daily practice of exercises in enunciation. Spell words in columns and in reading lessons, by letters and by sounds. Teach the meaning of the words found in the reading lessons, and require scholars to use their own language in defining. Correct all faults in expression.

Teach all script letters, and require words and sentences to be written from dictation, upon paper.

Review the Arithmetic, taught during the second year, by oral questions similar to those in the text book, and advance as far as practicable. Teach multiplication table to 10×10 .

First Class — Third Reader. Exercises in enunciation, spelling, definitions, etc., as in Second Class.

Use Miss Stickney's Child's Book of Language No. 1.

Review as in Second Class, and complete the Arithmetic, if found practicable. Teach multiplication table to 12×12 .

Drawing should be taught in all the classes except the Sixth. In drawing and singing, follow the directions of the special teachers.

In each school a few minutes should be devoted at every session to physical exercises.

Monroe's Charts may be used at pleasure throughout the course.

G.

COURSE OF STUDY FOR THE GRAMMAR SCHOOLS.

FIRST YEAR.

Eighth Class — Fourth Reader. Especial attention should be given to the Introductory Exercises, and to the lessons in spelling and defining at the beginning of each reading lesson.

Worcester's New Pronouncing Speller, to page 29.

Guyot's Elementary Geography, to Part 2.

Colburn's First Lessons in Arithmetic, to sec. 4, page 63, omitting C, sec. 3.

Written Arithmetic, from dictation; numeration and notation, addition and multiplication; amounts not to exceed a million.

Seventh Class—Fourth Reader; Introductory Exercises, spelling and defining as in Eighth Class.

Worcester's New Pronouncing Speller, to page 59.

Guyot's Elementary Geography, to Part 3.

Colburn's First Lessons, sections 4, 5, and 6.

Written Arithmetic, from dictation; numeration and notation, addition and multiplication, subtraction and long division, not to exceed three periods. In subtraction, not more than two figures in the minuend to be less than the figures below them, and in division the divisor not to exceed 25.

SECOND YEAR.

Sixth Class—Fourth Reader*; Spelling and defining and Introductory Exercises, as far as Inflection.

Worcester's New Pronouncing Speller, to page 85.

Guyot's Elementary Geography, to Africa.

Colburn's First Lessons, from C, in sec. 6, to sec. 9, page 94.

Arithmetic, to Common Fractions, page 73, omitting sections 79, 80, 81.

Elementary lessons in English, to page 67.

Fifth Class—Hillard's Intermediate Reader, with daily drill on the Introductory Exercises.

Worcester's New Pronouncing Speller, to page 111.

Guyot's Elementary Geography, completed and reviewed.

Colburn's First Lessons, sections 9, 10, and 11.

Arithmetic, from Common Fractions, page 73, to Decimals, page 102.

Elementary Lessons in English, to page 95.

THIRD YEAR.

Fourth Class—Hillard's Intermediate Reader. Daily drill as Fifth Class.

Worcester's New Pronouncing Speller, to page 131.

Guyot's Intermediate Geography, to Middle Atlantic States, page 31—omitting from Human Family, page 8, to Commerce and Location of Cities, page 11; Separate States, page 25, to page 27.

Colburn's First Lessons, sections 12, 13, 14.

Arithmetic, from Decimals, page 102, to Compound Numbers, page 134.

Elementary Lessons in English, to page 137.

Third Class—Fifth Reader; systematic teaching of the Introductory Treatise and reading lessons.

Worcester's New Pronouncing Speller, to page 145.

Guyot's Intermediate Geography, from Middle Atlantic States, page 31, to South America, page 59—omitting Separate States, page 30, to Map Draw-

* Child's Book of Nature permitted as a reading book to alternate with the Intermediate Reader, in the Sixth, Fifth, Fourth, and Third Classes.

ing, page 33; Separate States, page 37, to Map Drawing, page 39; Separate States, page 43, to bottom of page 47; Separate States, page 51, to Map Drawing, page 52.

Thomson's Intellectual Arithmetic to Decimals.

Arithmetic, from Compound Numbers, page 134, to Percentage, page 160.

Finish Elementary Lessons in English.

Anderson's Grammar School History, as a reading book, and to be taught "by reading and familiar conversation," to page 100; few dates to be memorized.

FOURTH YEAR.

Second Class — Fifth Reader; teaching of the Introductory Treatise, and reading lessons as in Third Class.

Worcester's New Pronouncing Speller, to page 158.

Guyot's Intermediate Geography from South America, page 59, to Geography of Massachusetts, page 102 — omitting Countries of South America, page 63, to General Review, page 65; Countries of Europe, page 71, to Asia, page 79; Countries of Asia, page 82, to Africa, page 87; Countries of Africa, page 90, to Australia, page 93; Review of Eastern Hemisphere, page 96, to Geography of Massachusetts, page 102.

Thomson's Intellectual Arithmetic, from Decimals to Interest.

Arithmetic, from Percentage, page 160, to Equation of Payments, page 209.

Review Elementary Lessons in English.

Anderson's Grammar School History, from the beginning, to Madison's Administration.

FIFTH YEAR.

First Class — Fifth Reader, as in Second Class.

Worcester's New Pronouncing Speller; the whole book.

Guyot's Intermediate Geography, from Massachusetts, page 102, to tables, and review the book.

Arithmetic, to Solids, page 263.

Thomson's Intellectual Arithmetic, from Interest to the end of the book, and review.

Greene's Grammar.

Anderson's Grammar School History, finished and reviewed.

Composition, Writing, Drawing, Music, and Elements of Book-keeping through the whole course.

Declamation by the boys in the First and Second Classes once a month.

Teachers should begin to teach the Geography of Massachusetts, County of Middlesex, and City of Lowell, as early in the course as practicable, chiefly in conversational lessons during the first and second years.

Parts of the Geography omitted are to be used as reading lessons.

H.

COURSE OF STUDY FOR THE HIGH SCHOOL.

ENGLISH COURSE.

FIRST YEAR. *First Half*—Algebra, Ancient History, English Composition, Drawing. *Second Half*—Algebra, English History, Natural Philosophy, Drawing.

SECOND YEAR. *First Half*—Geometry, Physical Geography, Natural Philosophy. *Second Half*—Geometry, Chemistry, English Grammar.

THIRD YEAR. *First Half*—Arithmetic, Astronomy, Physiology. *Second Half*—Rhetoric, English Literature, Political Science, or Botany.

FOURTH YEAR. *First Half*—Intellectual Philosophy, English Literature, French, German, or Latin. *Second Half*—Botany, Political Science, French, German, or Latin.

Composition, Declamation, Reading, and Music are required throughout the course. Trigonometry, Surveying, Geology, Book-keeping, Analytical Chemistry, Greek, Latin, French, German, and Military Instruction are optional studies. Any optional study, except Military Instruction, may take the place of any English study.

Each scholar is expected to pursue three regular studies, but is allowed to take a smaller number when health demands it, and to remain as a member of the school, until all the studies of the course are completed. Not more than three regular written examinations are permitted during each half-year.

CLASSICAL COURSE.

FIRST YEAR. *First Half*—Latin Grammar and Reader, English Composition, Algebra, Drawing. *Second Half*—Latin Reader, Cæsar, Greek and Roman History, Algebra, Drawing.

SECOND YEAR. *First Half*—Cæsar, Physics, Chemistry, Geometry. *Second Half*—Cæsar, Ovid, Greek Grammar and Lessons, Latin Composition.

THIRD YEAR. *First Half*—Virgil, Greek Reader, Physical Geography, Arithmetic reviewed, Logarithms, Latin Composition, Greek Composition. *Second Half*—Virgil, Greek Reader, Ancient and Modern Geography, Algebra and Geometry reviewed, Latin Composition, Greek Composition.

FOURTH YEAR. *First Half*—Cicero, Ovid, Homer, Latin Composition, Greek Composition, French or German. *Second Half*—Cicero, Homer, French or German, Latin Composition, Greek Composition, review of course.

In the Classical Course, the same rules obtain as in the English Course, with reference to studies pursued throughout the course, the number of daily recitations, and number of written examinations.

I.

NAMES OF TEACHERS.

Jan. 1, 1881. SCHOOLS.	TEACHERS.	ELECTED.	SALARIES.	RESIDENCES.
<i>High,</i>	Chas. C. Chase, Principal, .	1845	\$2,000	11 Nesmith street.
	Frank F. Coburn,	1880	1,800	62 Moore street.
	Mary A. Webster,	1860	800	184 Fletcher street.
	Marietta Melvin,	1859	700	381 Merrimack street.
	Elizabeth McDaniels,	1868	700	162 Stackpole street.
	Harriet C. Hovey,	1870	700	12 Fourth street.
	Charlotte E. Draper,	1870	700	37 Elm street.
	Alice J. Chase,	1877	700	158 Stackpole street.
	M. Jennie Keese,	1878	650	14 Richardson street.
	Rose A. Jordan,	1878	650	62 Mass. Corporation.
<i>Penmanship and Drawing</i>	Bertram Harrison,	1865	1,200	15 Arlington street.
<i>Vocal Music...</i>	George F. Willey,	1866	1,000	32 Appleton street.
<i>Grammar Sch's.</i>				
<i>Bartlett.....</i>	Samuel Bement, Principal,	1851	1,500	428 Merrimack street.
	Marianne B. Kent,	1859	600	428 Merrimack street.
	Abbie E. French,	1874	600	40 Marion street.
	Mary E. Pike,	1848	600	53 Third street.
	Belle A. Prescott,	1878	600	20 Mt. Washington st.
	M. Ida Howe,	1873	600	28 Third street.
	Edith A. Gove,	1875	600	144 Stackpole street.
	Sophia P. Wetherbee,	1847	600	23 Kirk street.
	Amy L. Tucke,	1879	450	92 Fletcher street.
<i>Colburn,</i>	George W. Howe, Principal	1880	1,500	28 Third street.
	Elizabeth W. Frost,	1857	600	Fairmount street.
	Sarah J. Crosby,	1868	600	151 Gorham street.
	Susan M. Andrews,	1864	600	42 Walnut street.
	Mary A. Hammill,	1875	600	19 Carpet corporation.
	Kate G. McLaughlin,	1878	600	62 Suffolk street.
	Arvilla L. Reader,	1871	600	106 Appleton street.
<i>Edson,</i>	C. W. Burbank, Principal,	1872	1,500	Cor. School & Bowers.
	Mary E. Stone,	1874	600	13 Cottage street.
	Maria C. R. Swan,	1862	600	35 Adams street.
	Anna A. Sargent,	1864	600	52 Elm street.
	Mary F. Carleton,	1856	600	42 Chapel street.
	Fannie A. Scripture,	1873	600	269 Central street.
	Mary A. Balch,	1865	600	71 Summer street.
	Lizzie N. Smith,	1877	600	74 Lawrence street.
	Nettie E. Carleton,	1867	600	42 Chapel street.
	Rosalie T. Burns,	1878	600	7 E. Merrimack street.
	Kate F. Hayes,	1879	500	13 Floyd street.
	Nellie Keefe,	1879	500	4 Cedar street.
<i>Franklin,</i>	Charles W. Morey, Prin...	1880	1,500	43 Sixth street.
	Etta M. Ramsdell,	1878	600	48 Queen street.
	Alice M. Clark,	1878	600	46 Chapel street.
	Abbie F. Woodward,	1869	600	73 Branch street.
	Luella A. Wardwell,	1870	600	30 School street.
	Fannie M. Clark,	1874	600	48 Queen street.
	Mary F. Burnham,	1879	500	129 Howard street.
<i>Green,</i>	Albert L. Bacheller, Prin.	1874	1,500	287 Central street.
	R. Alice Johnson,	1879	500	27 Tremont street.
	Annie E. Richardson,	1871	600	190 Moody street.
	Lizzie A. Nolan,	1876	600	408 Merrimack street.
	Ruth B. Bailey,	1871	600	200 Moody street.
	Ida Sheldon,	1871	600	35 Howard street.
	Lena A. Gookin,	1880	600	79 Summer street.
	Emma L. Davenport,	1876	600	383 Merrimack street.
	Mary A. Keyes,	1878	600	213 Market street.

NAMES OF TEACHERS — (CONTINUED).

Jan. 1, 1881. SCHOOLS.	TEACHERS.	ELECTED.	SALARIES.	RESIDENCES.
<i>Grammar Sch's.</i> Mann,	Geo. H. Conley, Principal,	1876	\$1,500	172 Stackpole street.
	Frances M. Webster,	1873	600	185 Fletcher street.
	Laura F. Howe,	1856	600	166 Stackpole street.
	Celestia P. Chase,	1867	600	61 Tilden street.
	Julia M. Healey,	1870	600	20 Bowers street.
	Nellie F. Murphy,	1878	600	42 North street.
Moody,	Joseph Peabody, Principal	1856	1,500	152 Appleton street.
	Mary E. Way,	1858	600	22 Tyler street.
	Helen A. Haggett,	1865	600	28 High street.
	Mary E. Hardman,	1873	600	158 Stackpole street.
	Cora V. Barnard,	1874	600	15 Myrtle street.
	Laura J. Pindar,	1856	600	35 Tyler street.
	Sarah E. Bailey,	1856	600	88 High street.
	Frances E. Hardman,	1873	600	158 Stackpole street.
	Frances E. Garrity,	1874	600	8 Third street.
Varnum,	A. K. Whitcomb, Prin.	1878	1,500	178 Bridge street.
	Georgiana F. Vinton,	1872	600	32 Fourth street.
	Harriet Bradley,	1854	600	38 Fourth street.
	Minnie F. Wing,	1879	500	36 Hampshire street.
	Sarah A. Bradley,	1857	600	145 Bridge street.
	Clara A. Hannaford,	1869	600	23 Pawtucket street.
	Maria W. Roberts,	1875	600	16 Fifth street.
<i>Primary No. 1</i>	Mercena F. Whitehorn, ...	1877	600	79 Conant street.
	Annie S. Harlow,	1873	600	23 Pawtucket street.
	Abbie G. Watson,	1869	600	19 Chelmsford street.
	Lucy F. Carleton,	1855	600	42 Chapel street.
	Ellen A. Stillings,	1875	600	107 Howard street.
	Ella M. Plumado,	1878	600	19 Lane street.
	D. Lilla Naylor,	1880	450	93 Charles street.
	Martha A. Franklin,	1866	600	67 Vernon street.
	Nellie MacDonald,	1878	600	84 Prince street.
	Martha A. Neal,	1847	600	14 Dodge street.
	Isabella V. McAnulty,	1867	600	7 Hurd street.
	Minnie C. Smith,	1877	600	130 Appleton street.
	Cornelia M. Davis,	1871	600	40 Rock street.
	Marietta Hill,	1870	600	46 Fairmount street.
	Abbie R. Worthley,	1871	600	133 Gorham street.
	Nellie Kohawn,	1877	600	31 Willow street.
	Sarah C. Fiske,	1866	600	134 Appleton street.
	Eliza Cowley,	1857	600	178 Lawrence street.
	Alice T. Owens,	1878	600	45 Walnut street.
	Mary L. McSorley,	1879	500	87 Market street.
	Martha S. Williams,	1851	600	276 Central street.
	Ella E. Gardner,	1871	600	4 Mt. Washington st.
	Ellen A. Corbett,	1878	600	65 Gorham street.
	Ellen A. Bridge,	1857	600	281 Central street.
	Aurelia L. Howe,	1844	600	166 Stackpole street.
	Charlotte E. Brown,	1870	600	158 Fletcher street.
	Mary E. Drew,	1868	600	28 Wamesit street.
	Mary E. Corbett,	1878	600	65 Gorham street.
	Jennie F. Woodward,	1871	600	73 Branch street.
	Alice L. Frye,	1873	600	99 Appleton street.
	Laura E. Lee,	1873	600	141 Grand street.
	Ellen F. Coughlan,	1853	600	15 Austin street.
	Amanda M. Hadley,	1870	600	6 Chambers street.
	Lizzie S. Lowe,	1857	600	3 Nichols street.
	Clara A. Emerson,	1869	600	35 Lawrence street.
	Mary A. Beard,	1844	600	14 Grove street.
	Lottie M. Furnald,	1880	450	20 Mt. Washington st.
	Abby L. Sargent,	1873	600	110 Stackpole street.
	Sarah E. Seales,	1866	600	116 Appleton street.
	Lilla J. Greenhalge,	1871	600	10 Ash street.
	Lizzie M. Hadley,	1869	600	177 Moody street.
	Nellie M. Brown,	1865	600	158 Fletcher street.
	Mary L. Hill,	1858	600	126 Worthen street.
	Ellen M. White,	1863	600	Grove street.
	Ella A. Bailey,	1869	600	164 Bridge street.

NAMES OF TEACHERS — (CONTINUED).

Jan. 1, 1881. SCHOOLS.	TEACHERS.	ELECTED.	SALARIES.	RESIDENCES.
<i>Primary No. 47</i>	Mary F. Beane,.....	1879	500	78 Tenth street.
48	Marion A. Scott,.....	1870	600	21 Eleventh street.
49	Sara R. Swan,.....	1876	600	51 Fourth street.
50	Marion J. Stephenson,....	1878	600	45 Princeton street.
51	Mary J. Alger,	1868	600	205 Fairmount street.
52	Lucretia A. Day,	1864	600	274 Central street
53	Charlotte McDaniels,.....	1878	600	162 Stackpole street.
54	Agnes I. Meldrum,	1876	600	33 Elm street.
55	Stella J. Allen,	1879	500	1 Myrtle street.
56	Elizabeth A. Balch,	1873	600	1 Fairview street.
57	Belle T. Vinal,	1873	600	226 Thorndike street.
58	Ellen M. Holden,	1876	600	Riverside street.
59	Alice T. Lee,	1878	600	113 Lawrence street.
60	Jennie C. Boardman,.....	1877	600	86 First street.
61	Helen M. Brown,	1877	600	141 Bridge street.
62	Clara B. Horne,	1877	600	16 So. Highland street.
63	Emma J. Miller,	1877	600	96 Fletcher street.
64	Delia T. Brady,	1877	600	375 Central street.
65	M. Carrie Stiles,	1878	600	32 Varney street.
66	Katie F. Fay,	1880	450	94 Stackpole street.
67	Clementine H. Bowers,....	1876	600	18 Loring street.
68	Mary McLaughlin,	1879	500	234 Lawrence street.
69	Marietta F. Crowley,	1879	500	23 Marion street.
70	Abbie V. Wheeler,	1879	500	185 Moody street.
71	Vacancy.			
72	Helen S. Durgin,	1880	450	148 Hale street.
73	Mary J. Meade,	1880	450	1 Clark street.
74	Anna Kohawn,	1879	500	31 Willow street.
75	Minnie I. A. Tibbetts,	1880	450	20 Second street.
76	Katie G. Jones,	1880	450	49 Andover street.
77	Ida J. Flint,	1880	450	142 Liberty street.
78	Nellie G. Gilman,	1880	450	18 East Pine street.
<i>Interme. No. 1.</i>	Viola A. Hamblett,	1876	600	60 School street.
<i>Mixed No. 1...</i>	Elizabeth A. Cotting,	1876	600	64 Baldwin street.
2...	Laura J. Gould,	1874	600	7 Varnum avenue.

J.

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL, FOR THE YEAR ENDING DECEMBER 18, 1880.

SCHOOL.	LOCATION.	No. pupils belonging Dec. 18, 1880.			Whole No. of pupils on time-book since Jan. 1, 1880.			Average No. of pupils belonging to school.			Average daily Attendance.			No. entered, not recd. from any other public school.												Over fourteen years of age, December 18, 1880.	Between 10 and 14 years of age, December 18, 1880.	Between six and ten years of age, December 18, 1880.	Under six years of age, December 18, 1880.	Per cent. of attendance.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Received from other public schools of lower grade.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling for mills.												
High.....	Anne and Kirk streets.....	148	167	315	209	264	473	147	169	316	139	161	300	5	116	0	0	0	287	26	0	0	95							
Grammar.																														
Bartlett.....	Clark street.....	223	181	404	309	246	555	217	165	382	200	150	350	24	99	7	18	34	42	69	268	67	0	92						
Colburn.....	Lawrence street.....	151	97	248	259	154	413	144	98	242	135	88	223	20	74	9	3	8	104	21	198	29	0	92						
Edson.....	Highland street.....	295	238	533	444	373	817	278	246	524	259	225	484	41	182	37	29	21	57	64	429	61	0	92						
Franklin.....	Branch street.....	149	147	296	223	215	438	144	137	281	131	123	254	21	61	15	19	18	17	48	213	35	0	90						
Green.....	Merrimack street.....	196	162	358	300	241	541	179	146	325	169	133	302	52	73	28	18	15	56	65	233	60	0	93						
Mann.....	Lewis street.....	180	54	234	268	86	354	134	49	203	143	42	185	22	58	11	3	4	137	25	177	32	0	91						
Moody.....	High and East Merrimack.....	134	144	278	272	275	547	160	169	329	148	157	305	52	66	14	15	11	46	20	204	54	0	92						
Varnum.....	Myrtle street.....	138	130	268	205	204	409	139	135	274	121	120	241	30	59	20	24	12	50	34	207	27	0	88						
Totals.....		1406	1173	2539	2280	1794	4074	1415	1145	2560	1306	1038	2344	262	622	141	129	509	346	1929	365	0	92							

Summary of the Annual Returns of the Public Schools—Continued.

SCHOOL.	LOCATION.																								
	No. pupils belonging, Dec. 18, 1880.		Whole No. of pupils on time-book since Jan. 1, 1880.		Average No. of pupils belonging to school.		Average daily Attendance.		Percent of attendance.																
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	No. entered, not recd. from any other public school.	Received from other public schools of lower grade.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling for mills.	Over fourteen years of age, December 18, 1880.	Between 10 and 14 years of age, December 18, 1880.	Between six and ten years of age, December 18, 1880.	Under six years of age, December 18, 1880.	Percent of attendance.					
Upper Grade.	Primaries.																								
	No. 1.....	Kirk street.....	14	6	20	39	29	68	17	12	29	15	11	26	6	13	4	16	6	8	0	0	90		
	2.....	School street.....	22	32	54	40	52	92	21	26	47	20	24	44	10	29	1	28	6	0	4	50	94		
	4.....	Chapel street.....	19	17	36	37	35	72	20	18	38	18	17	35	2	14	8	20	8	1	0	27	90		
	7.....	Chapel street.....	25	12	37	39	31	70	23	18	41	21	17	38	7	16	5	24	1	5	0	11	26	92	
	8.....	Worthen street.....	20	16	36	41	25	66	25	10	35	23	9	32	5	16	3	16	4	3	1	6	29	91	
	9.....	Church street.....	15	20	35	31	37	68	17	23	40	16	20	36	5	16	3	11	5	1	1	10	24	90	
	12.....	Worthen street.....	19	9	28	40	18	58	20	9	29	18	8	26	5	16	2	11	2	1	0	9	19	90	
	15.....	Elliott street.....	25	19	44	47	41	88	25	19	44	22	17	39	6	29	7	25	7	1	0	10	34	90	
	18.....	Central street.....	17	15	32	36	34	70	17	18	35	16	16	32	5	22	4	20	3	2	0	8	24	91	
	19.....	Charles street.....	30	27	57	48	45	93	23	24	47	22	22	44	12	27	11	19	11	1	0	14	43	94	
	24.....	Howard street.....	35	21	56	51	39	90	32	22	54	28	18	46	7	18	6	20	5	3	0	8	48	85	
	25.....	High street.....	17	20	37	38	41	79	23	23	46	20	21	41	3	23	5	28	5	0	0	3	33	90	
	30.....	Elliott street.....	24	21	45	46	28	74	26	21	47	24	19	43	3	14	4	19	4	3	0	11	34	91	
	33.....	Lawrence street.....	21	17	38	38	39	77	19	24	43	18	22	40	6	11	8	19	4	4	0	0	11	34	91
	40.....	Rock street.....	27	19	46	49	45	94	28	17	45	26	16	42	17	21	10	19	15	1	0	12	34	93	
	47.....	Myrtle street.....	26	30	56	53	65	118	30	29	59	27	26	53	12	32	11	34	10	1	0	9	47	90	
	48.....	West Sixth street.....	14	12	26	34	40	74	16	20	36	15	17	32	0	18	5	21	3	7	1	10	15	0	90
	52.....	High street.....	19	20	39	43	43	86	20	21	41	19	19	38	9	20	7	31	2	2	0	9	39	92	
	56.....	Lawrence street.....	20	17	37	34	47	81	21	21	42	20	18	38	3	13	5	22	2	0	0	12	25	0	90
	61.....	West Sixth street.....	20	18	38	45	34	79	21	19	40	20	15	35	7	13	3	17	1	11	0	18	20	0	88
	62.....	Dover street.....	26	24	50	45	46	91	23	21	44	21	18	39	5	31	10	20	8	0	0	3	47	0	90
	Totals.....	455	392	847	874	814	1688	467	415	882	429	370	799	135	412	118	435	112	61	3	189	661	0	90	

Upper Grade.

Lower Grade.	<i>Primaries.</i> No. 3.....	Paige street.....	30	16	46	65	50	115	30	20	50	27	18	45	37	0	14	20	9	0	0	0	31	15	90	
		School street.....	31	25	56	55	48	103	29	22	51	26	19	45	38	0	6	27	11	0	0	0	1	36	20	90
		Chapel street.....	23	10	33	49	36	85	25	14	39	23	13	36	23	0	16	21	19	0	0	2	22	9	92	
		Chapel street.....	21	24	45	40	40	80	23	22	45	23	19	40	22	0	10	14	7	0	0	0	33	12	89	
		Worthen street.....	26	25	51	58	50	108	21	21	42	24	16	40	29	0	26	20	4	0	5	40	6	95		
		Worthen street.....	29	55	65	52	97	34	15	49	27	12	39	30	0	9	15	13	3	0	0	0	19	16	79	
		Church street.....	26	22	48	60	57	117	26	22	48	24	19	43	44	0	17	19	31	0	0	0	34	14	90	
		Worthen street.....	37	13	50	63	35	98	34	15	49	30	12	42	35	0	15	17	8	2	2	11	30	7	86	
		Elliott street.....	32	18	50	67	47	114	38	22	60	34	21	55	34	0	4	30	13	2	0	8	33	9	91	
		Central street.....	33	45	84	80	82	162	35	40	73	34	36	70	68	0	3	24	6	2	0	1	30	13	90	
		Charles street.....	38	45	83	69	65	134	32	30	62	27	26	53	52	0	27	27	14	1	0	2	60	21	93	
		Howard street.....	24	32	66	63	65	134	32	30	62	27	26	53	52	0	18	18	12	1	0	3	44	19	85	
		High street.....	14	23	48	56	52	108	29	24	53	26	22	48	39	0	12	16	7	0	0	0	35	13	91	
		Elliott street.....	5	31	54	56	62	118	27	28	55	25	26	51	39	0	17	13	13	0	0	1	0	45	8	93
		Ames street.....	27	17	33	44	35	79	20	17	37	19	15	34	29	0	11	13	18	0	0	2	22	9	92	
		Rock street.....	45	65	69	68	69	58	127	36	27	63	29	24	53	66	0	12	22	9	1	0	8	36	21	84
		Myrtle street.....	32	32	64	58	61	119	32	29	61	27	24	51	52	0	8	33	13	0	0	2	49	13	83	
		West Sixth street.....	15	30	45	43	53	96	22	26	48	20	23	43	42	0	16	23	5	3	0	1	35	81	90	
		High street.....	25	20	45	41	58	99	26	27	53	22	26	48	37	0	12	20	6	0	0	1	31	13	90	
		Fayette street.....	30	17	47	65	47	112	31	20	51	28	17	45	33	0	19	20	12	3	0	5	31	11	88	
		Ames street.....	19	20	39	38	35	73	21	21	42	19	19	38	16	0	11	13	5	0	0	1	29	9	90	
		West Sixth street.....	60	65	53	54	60	144	40	25	65	36	22	58	39	0	20	18	16	4	0	5	42	6	90	
		Dover street.....	35	34	69	60	62	122	32	26	58	28	22	50	49	0	11	21	5	0	0	0	50	19	86	
Totals.....		640	529	1169	1339	1160	2499	673	533	1206	602	470	1072	864	0	313	482	249	26	3	58	817	291	89		
Ungraded.	<i>Primaries.</i> No. 31.....	Powell street.....	40	26	66	61	39	100	33	22	55	30	18	48	36	0	15	14	8	1	0	11	46	9	87	
		Common street.....	58	30	88	77	41	118	57	29	86	51	26	77	33	0	2	26	2	0	0	2	64	22	90	
		Fourth street.....	28	15	43	43	30	73	23	15	38	22	14	36	17	0	19	6	8	0	0	9	30	4	94	
		Mammoth street.....	19	23	42	33	41	74	18	25	43	16	22	38	2	0	12	15	5	0	0	3	36	3	88	
		London street.....	31	28	59	49	43	92	29	27	56	26	23	49	6	0	11	13	6	0	0	4	42	13	90	
Upper Grade.	<i>Primaries.</i> No. 17.....	Agawam street.....	39	34	73	65	48	113	43	30	73	38	25	63	20	12	8	11	2	0	7	49	17	86		
		Cheever street.....	32	37	69	87	79	166	35	30	65	31	25	56	162	0	4	23	26	16	0	17	46	6	86	
		Cheever street.....	43	26	69	97	32	129	43	14	57	40	12	52	91	0	44	0	26	5	0	20	40	9	90	
		Totals.....		290	219	509	512	353	865	281	192	473	254	163	419	385	0	119	105	82	24	0	73	353	83	89
		<i>Primaries.</i> No. 17.....	Branch street.....	24	24	48	53	44	97	23	20	43	20	17	37	4	35	7	30	11	7	0	25	23	0	86
Carter street.....	16		15	31	28	26	54	15	14	29	14	13	27	1	15	5	22	1	1	1	14	16	0	93		
Cabot street.....	35		26	61	116	78	194	40	28	68	33	21	54	17	41	9	49	6	20	0	29	32	0	80		
Common street.....	40		22	62	73	37	110	36	15	51	33	13	46	13	37	5	37	2	0	1	20	41	0	90		
Lewis street.....	48		25	73	85	58	143	46	21	67	42	18	60	18	30	9	39	1	11	1	20	53	0	90		
Lyon street.....	20		32	52	42	53	95	20	29	49	19	25	44	13	20	11	13	16	4	0	17	35	0	90		
Totals.....		183	144	327	397	296	693	180	127	307	161	107	268	66	178	46	190	37	38	3	125	290	0	87		

* Seven months: Formed in April, from scholars attending schools on Race and Cabot streets.

Summary of the Annual Returns of the Public Schools—Continued.

SCHOOL.	LOCATION.	No. pupils belonging, Dec. 18, 1880.		Whole No. of pupils on time-book since Jan. 1, 1880.		Average No. of pupils belonging to school.		Average daily Attendance.		No. entered, not rec'd. from any other public school.	Received from other public schools of lower grade.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling for mills.	Over fourteen years of age, December 18, 1880.	Between 10 and 14 years of age, December 18, 1880.	Between six and ten years of age, December 18, 1880.	Under six years of age, December 18, 1880.	Percent. of attendance.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.											
Middle Grade.	Primaries.	40	14	54	71	33	104	33	14	47	30	13	43	4	42	7	38	2	38	2
		13	20	33	25	31	56	14	18	32	13	16	29	1	19	3	16	4	0	1
		25	32	57	67	55	122	30	20	50	28	17	45	14	45	6	41	1	31	2
		32	5	37	86	16	102	44	7	51	40	8	48	15	44	8	40	3	0	1
		38	24	62	66	40	106	33	16	49	30	13	43	18	35	4	24	0	6	51
		26	23	49	46	56	102	26	22	48	24	19	43	11	25	17	20	13	1	0
		194	118	312	361	231	592	180	97	277	165	86	251	53	210	45	179	27	18	37
	Totals.....																			268
Lower Grade.	Primaries.	36	36	72	95	85	180	43	36	79	39	32	71	72	0	16	42	22	4	0
		25	19	44	35	38	73	16	19	35	15	17	32	35	0	9	30	16	0	0
		47	37	84	81	70	151	34	29	63	30	55	85	0	10	34	16	4	0	0
		10	27	37	82	71	153	36	25	61	32	23	55	152	0	4	20	16	10	0
		63	45	108	127	35	162	56	12	68	52	11	63	76	0	12	50	14	0	3
		26	15	41	76	40	116	39	17	56	35	15	50	57	0	8	34	10	1	0
		41	39	80	82	79	161	35	33	68	30	27	57	150	0	11	25	9	0	0
	*74.....	43	14	57	53	15	68	44	13	57	41	10	51	10	0	58	0	5	4	0
	Totals.....	332	200	532	631	433	1064	303	184	487	274	160	434	637	0	118	225	98	23	1
																				64
																				308
																				150
																				89
No. †37.	Fayette street.....	0	0	0	23	38	61	15	30	45	14	27	41	5	1	3	29	3	17	0
		0	0	0	44	35	79	27	18	45	24	14	38	10	0	53	28	8	8	0
Intermediate.	Powell street.....	28	17	45	37	27	64	22	16	38	20	12	34	10	14	11	5	5	3	2
		17	11	28	22	23	45	15	13	29	13	12	25	5	0	9	8	6	1	0
Mixed No. 1.	Middlesex Village.....	13	12	25	15	15	30	10	14	24	9	8	6	1	2	1	0	1	0	28
		2	1	3	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	15
Mixed No. 2.	Varnum Avenue.....	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	4
		1	1	2	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	8
	Summary.....	3766	2982	6748	6729	5485	12211	8735	2953	6688	3410	2035	6045	2438	1555	967	1815	754	728	633
																				2546
																				3014
																				543

* Four months. † Discontinued in October.

AUDITOR'S

Forty-Fifth Annual Report

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF LOWELL, MASS.

TOGETHER WITH THE TREASURER'S ACCOUNT FOR THE FINANCIAL
YEAR ENDING DECEMBER 31, 1880.



LOWELL, MASS. :
CITIZEN PRESS, 44 CENTRAL STREET: KNAPP & SON.
1881.

CITY OF LOWELL.

IN COMMON COUNCIL, January 11, 1881.

Read and sent to the Board of Aldermen.

DAVID CHASE, CLERK.

IN BOARD OF ALDERMEN, January 11, 1881.

Received and read.

SAMUEL A. McPHETRES, CITY CLERK.

AUDITOR'S REPORT
OF THE
RECEIPTS AND EXPENDITURES,
FOR THE YEAR ENDING DECEMBER 31, 1880.

Auditor's Report.

CITY OF LOWELL,)
AUDITOR'S OFFICE, January 11, 1881.)

TO THE CITY COUNCIL:

Gentlemen—In accordance with the requirements of the Ordinances of the City, I have the honor of submitting the Forty-fifth Annual Report of the Auditor of Accounts, exhibiting in detail the Receipts and Expenditures of the City, for the financial year commencing January 1, 1880, and ending December 31, 1880. Annexed are schedules of the Real and Personal Property belonging to the City, a statement of the City Debt and Debts due to the City.

RECEIPTS.

The whole amount of money received into the Treasury
from all sources, from January 1, to December 31,
1880, was.....\$1,438,382 43

Of this amount there was received on
account of:

Taxes of 1878.....	\$	138 59
Taxes of 1879.....		26,361 90
Taxes of 1880.....		676,668 58
Schools.....		806 46

Amount carried forward..... \$703,975 53

<i>Amount brought forward</i>	\$703,975 53
School Houses.....	1,164 33
Roads and Bridges.....	24,540 23
Reserved Fund.....	55,861 97
Paupers.....	9,248 33
Police.....	5,181 96
Fire Department.....	1,603 41
Sewers and Drains.....	10,894 09
Commons.....	226 50
Lighting.....	425 26
Public Buildings.....	2,610 13
City Library.....	2,659 53
Health.....	80 53
Water Works.....	123,740 49
State Aid.....	10,239 57
Aid for Indigent Soldiers and Sailors...	3,579 81
City Debt.....	50,000 00
Interest.....	2,581 75
Temporary Loan.....	303,000 00
Fund for the reduction of the ordinary City Debt.....	39,743 70
City Hall Building Lot.....	87,025 31
	<hr/> \$1,438,382 43 <hr/>

EXPENDITURES.

The amount expended, and ordered to be paid from the
Treasury, from January 1, to December 31, 1880,
was\$1,398,683 48

These expenditures are charged to the
following appropriations or accounts,
viz :

Schools.....	\$135,692 86
School Houses.....	33,278 04
Roads and Bridges.....	93,959 47
Reserved Fund.....	22,679 20
Paupers.....	48,352 95
Police.....	53,663 17
Fire Department.....	54,147 31
Sewers and Drains.....	66,924 63
Commons.....	2,540 38
Printing and Advertising.....	3,185 72
Lighting.....	17,437 11
Public Buildings.....	9,968 63

Amount carried forward,..... \$541,829 47

<i>Amount brought forward</i> ,.....	\$541,829 47
City Hall Building Lot.....	85,719 85
City Library.....	6,298 10
Salaries.....	15,501 25
Health.....	5,282 82
Water Works.....	154,391 59
State Aid.....	10,490 75
Aid for Indigent Soldiers and Sailors....	12,135 00
City Debt.....	87,000 00
Interest.....	33,476 37
National Bank Tax.....	20,260 50
State Tax.....	31,650 00
County Tax.....	15,904 08
Temporary Loans.....	303,000 00
Water Loan Sinking Fund.....	25,000 00
Sinking Fund for the payment of the Loan of 1876.....	4,000 00
City Hall Building Lot Sinking Fund....	7,000 00
Fund for the reduction of the ordinary City Debt.....	39,743 70
	<hr/> \$1,398,683 48 <hr/>

The whole amount of receipts during the
year 1880 was.....\$1,438,382 43

The whole amount of expenditures during
the year 1880 was.....1,398,683 48

Excess of receipts over expenditures....

\$39,698 95

The balance in the Treasury, January 1,
1880, was.....*\$44,710 44

The amount received into the Treasury,
during the year 1880 was.....1,438,382 43

Making a total of.....\$1,483,092 87

The amount paid from the Treasury,
during the year 1880 was.....1,431,620 52

The balance in the Treasury, December
31, 1880, was.....\$51,472 35

* From this should be taken the sum of \$32,937.04, it being the amount of the draft for December, 1879, unpaid January 1, 1880, making the amount in the Treasury after the payment of the draft for December, 1879, \$11,773.40, or \$39,698.95 less than the amount January 1, 1881, the draft for December, 1880, having been paid.

CITY DEBT.

The amount of the City Debt January 1, 1880, was.....	\$2,281,000 00	
The City Debt has been increased during the year as follows :		
By the amount of a note given to the Lowell Institution for Savings, dated January 2, 1880, payable in ten years, with interest at the rate of four and three-fourths per cent. per annum, payable semi-annually.....	\$85,300 00	
By the amount of a note given to the Lowell Institution for Savings, dated March 25, 1880, payable in ten years, with interest at the rate of four and twenty-nine hundredths per cent. per annum, payable semi-annually.....	50,000 00	
	<hr/>	135,300 00
		<hr/>
		\$2,416,300 00
There has been paid on account of the City Debt during the year 1880 :		
To the City Institution for Savings a note which became due January 13, 1880.....	\$50,000 00	
To the Lowell Institution for Savings, a note which became due March 22, 1880	37,000 00	
	<hr/>	87,000 00
		<hr/>
Total amount of City Debt, Jan. 1, 1881,	\$2,329,300 00	
	<hr/>	
Increase in the City Debt during the year 1880		<u>\$48,300 00</u>
The amount of the City Debt on account of Water Works, Jan. 1, 1880, was	\$1,800,000 00	
Deduct the amount of Sinking Fund for the reduction of the same, Dec. 31, 1880	265,939 63	
	<hr/>	
Net Debt of the City on account of Water Works, Dec. 31, 1880.....	\$1,534,060 37	
The ordinary Debt of the City, Jan. 1, 1880, was.....	\$481,000 00	
	<hr/>	
Amounts carried forward,.....	\$481,000 00	\$1,534,060 37

<i>Amounts brought forward,</i>	\$481,000 00	\$1,534,060 37
Add amount of two notes given Lowell Ins. for Savings during the year.....	135,300 00	
	<u>\$616,300 00</u>	
Deduct the amount of two notes which have been paid during the year.....	87,000 00	
	<u>\$529,300 00</u>	
Deduct the amount of the Sinking Funds for the reduction of the ordinary City Debt.....	46,743 70	
Net ordinary Debt of the City, January 1, 1881.....		\$482,556 30
Net		<u>\$2,016,616 67</u>
Total Net Debt of the City, Jan. 1, 1881,		<u>\$2,016,616 67</u>
Net Debt of the City, January 1, 1880..		\$2,054,274 08
Net Debt of the City, January 1, 1881..		<u>2,016,616 67</u>
Decrease in the Net City Debt during the year 1880.....		<u>\$37,657 41</u>

Respectfully submitted,

DAVID CHASE,

Auditor of Accounts.

APPROPRIATIONS AND EXPENDITURES.

THE AMOUNT OF THE SEVERAL APPROPRIATIONS MADE BY THE CITY COUNCIL DURING THE YEAR—THE AMOUNT OF THE UNEXPENDED BALANCE OF 1879—THE TRANSFERS FROM ONE APPROPRIATION TO ANOTHER—THE AMOUNT RECEIVED INTO THE TREASURY FROM ALL SOURCES—THE EXPENDITURES IN DETAIL UNDER EACH APPROPRIATION, AND THE UNDRAWN BALANCES, DECEMBER 31, 1879—ALSO, THE AMOUNT OF THE CITY DEBT—DEBTS DUE THE CITY—SCHEDULES OF REAL AND PERSONAL PROPERTY, ETC.

SCHOOLS.

Balance undrawn January 1, 1880,.....	\$	2,580	64	
Appropriated and assessed in 1880,.....		130,000	00	
				\$132,580 64

RECEIPTS.

Received into the Treasury on account
of SCHOOLS.

From Arthur L. Clarke, for tuition.....	\$60	00	
Arthur J. French, for tuition.....	20	00	
Albert F. French, for tuition.....	10	00	
Arthur L. Foster, for tuition.....	20	00	
Howard W. Foster, for tuition....	20	00	
<i>Amounts carried forward,.....</i>	\$130	00	\$132,580 64

<i>Amounts brought forward</i> ,.....	\$130 00	\$132,580 64
Albertus H. Hilton, for tuition...	20 00	
Charles Morrill, Superintendent, for books.....	467 60	
Mary F. Burnham, for overdraft..	15 00	
L. G. Howe, for old iron and black- board dressing.....	54 10	
J. F. Puffer & Son, for old carpet.	12 50	
Reserved fund, for sundries.....	8 40	
Appropriation for Library, for sun- dries,.....	2 30	
Appropriation for Police, for sun- dries,.....	11 46	
Appropriation for Paupers, for brush, etc.....	1 10	
Appropriation for Fire Department, for sundries.....	84 00	
	<hr/>	806 46
		<hr/>
		\$133,387 10
Transferred from Corporation Tax Account.....		11,000 00
		<hr/>
		\$144,387 10
		<hr/>

EXPENDITURES.

Paid SUPERINTENDENT OF PUBLIC
SCHOOLS:

To Charles Morrill, salary.....	\$2,100 00	
	<hr/>	\$2,100 00

Paid for INSTRUCTION:

HIGH SCHOOL.

To Charles C. Chase, Principal.....	\$1,880 00	
Edwin H. Lord.....	960 00	
Frank F. Coburn.....	720 00	
Mary A. Webster.....	780 00	
Marietta Melvin.....	680 00	
Elizabeth McDaniels.....	680 00	
Harriet C. Hovey.....	680 00	
Charlotte E. Draper.....	680 00	
Alice J. Chase.....	680 00	
M. Jennie Keese..	620 00	
Rose A. Jordan.....	620 00	
Hattie E. Morey.....	241 51	
	<hr/>	9,221 51
		<hr/>
<i>Amount carried forward</i> ,.....		\$11,321 51

Amount brought forward,..... \$11,321 51

Paid for INSTRUCTION :

BARTLETT SCHOOL.

To Samuel Bement, Principal.....	\$1,440 00	
Mary B. Kent.....	560 00	
Abbie E. French.....	560 00	
Belle A. Prescott.....	500 00	
M. Ida Howe.....	560 00	
Edith A. Gove.....	560 00	
Sophia P. Wetherbee.....	560 00	
Caroline E. Holt.....	183 59	
Mary E. Pike.....	405 14	
Emma G. French.....	64 88	
Amy L. Tucke.....	232 38	
Lizzie A. Brickett.....	2 50	
	<hr/>	5,628 49

COLBURN SCHOOL.

To Albert L. Bacheller, Principal.....	\$ 140 00	
George W. Howe, ".....	1,300 00	
Elizabeth W. Frost.....	559 33	
Sarah J. Crosby.....	560 00	
Susan M. Andrews.....	560 00	
Mary A. Hammill.....	560 00	
Arvilla L. Reader.....	560 00	
Kate G. McLaughlin.....	560 00	
	<hr/>	4,799 33

EDSON SCHOOL.

To Calvin W. Burbank, Principal.....	\$1,440 00	
Mary E. Stone.....	560 00	
Nettie E. Carleton.....	560 00	
Maria C. R. Swan.....	548 50	
Belle F. Bachelder.....	182 50	
Mary F. Carleton.....	560 00	
Fannie A. Scripture.....	560 00	
Rosalie T. Burns.....	500 00	
Katie J. Hayes.....	439 19	
Mary A. Balch.....	560 00	
Lizzie N. Smith.....	560 00	
Lizzie Keefe.....	44 19	
Nellie F. Keefe.....	395 00	
Eliza A. Davis.....	11 50	
Anna A. Sargent.....	340 00	
	<hr/>	7,260 88

Amount carried forward,..... \$29,010 21

Amount brought forward,..... \$29,010 21

Paid for INSTRUCTION :

FRANKLIN SCHOOL.

To Frank F. Coburn, Principal.....	\$840 00	
Charles W. Morey, ".....	600 00	
Etta M. Ramsdell.....	500 00	
Alice M. Clark.....	500 00	
Abbie F. Woodward.....	560 00	
Fannie M. Clark.....	560 00	
Luella A. Wardswell.....	560 00	
Mary F. Burnham.....	459 19	
	<hr/>	4,579 19

GREEN SCHOOL.

To Albert L. Fiske, Principal.....	\$ 140 00	
Albert L. Bacheller ".....	1,300 00	
R. Alice Johnson.....	458 19	
Annie E. Richardson.....	560 00	
Lizzie A. Nolan.....	560 00	
Ruth B. Bailey.....	553 50	
Ida Sheldon.....	560 00	
Annie C. Howe.....	28 10	
Lena A. Gookin.....	290 88	
Mary J. Mead.....	30 00	
Emma L. Davenport.....	560 00	
Mary A. Keyes.....	500 00	
Cora F. Adams.....	6 50	
	<hr/>	5,547 17

MANN SCHOOL.

To George H. Conley, Principal.....	\$1,438 29	
Frances M. Webster.....	560 00	
Laura F. Howe.....	560 00	
Celestia P. Chase.....	560 00	
Julia M. Healey.....	560 00	
Nellie F. Murphy.....	500 00	
	<hr/>	4,178 29

MOODY SCHOOL.

To Joseph Peabody, Principal.....	\$1,412 56	
Mary E. Way.....	562 00	
Helen A. Haggett.....	366 50	
Mary E. Hardman.....	540 00	
Cora V. Barnard.....	560 00	
Laura J. Pindar.....	511 45	
	<hr/>	
<i>Amounts carried forward</i> ,	\$3,952 51	\$43,314 86

Amounts brought forward, \$3,952 51 \$43,314 86

Paid for INSTRUCTION :

Sarah E. Bailey.....	560 00	
Frances E. Hardman.....	431 00	
Frances E. Garrity.....	559 33	
Alice M. Sanborn.....	105 00	
Eliza A. Davis.....	21 50	
Clara A. Eaton.....	65 63	
	<hr/>	5,694 97

VARNUM SCHOOL.

To Arthur K. Whitecomb, Principal.....	\$1,440 00	
Georgianna F. Vinton.....	560 00	
Harriet Bradley.....	560 00	
Minnie F. Wing.....	434 19	
Sarah A. Bradley.....	560 00	
Clara A. Hannaford.....	431 47	
Maria W. Roberts.....	560 00	
Mary I. A. Tibbetts.....	67 13	
	<hr/>	4,612 79

TEACHER OF PENMANSHIP AND DRAWING.

To Bertram Harrison	\$1,040 00	
	<hr/>	1,040 00

TEACHER OF VOCAL MUSIC.

To George F Willey.....	\$1,000 00	
	<hr/>	1,000 00

INTERMEDIATE SCHOOL.

To Viola A. Hamblett.....	\$600 00	
	<hr/>	600 00

MIXED SCHOOLS.

No. 1—To Elizabeth H. Cotting.....	\$552 50	
	<hr/>	552 50
No. 2—To Laura J. Gould.....	\$560 00	
	<hr/>	560 00

PRIMARY SCHOOLS.

No. 1—To Hattie H. Eaton.....	\$330 00	
Eliza A. Davis.....	24 38	
Mercena F. Whitehorn.....	175 00	
	<hr/>	529 38

<i>Amount carried forward</i> ,.....		<hr/> \$57,904 50
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Amount brought forward,..... \$57,904 50

Paid for INSTRUCTION:

PRIMARY SCHOOLS.

No. 2—To Annie S. Harlow.....	\$446 82	
Eva M. Hardy.....	56 24	
Helen J. Gookin.....	9 38	
	<hr/>	512 44
No. 3—To Abbie G. Watson.....	\$560 00	
	<hr/>	560 00
No. 4—To Lucy F. Carleton.....	\$560 00	
	<hr/>	560 00
No. 5—To Ella A. Stillings.....	\$560 00	
Nellie T. O'Grady.....	48 13	
	<hr/>	608 13
No. 6—To Ella M. Plumado.....	\$500 00	
	<hr/>	500 00
No. 7—To Martha S. Williams....	\$330 00	
D. Lilla Nayler.....	170 00	
	<hr/>	500 00
No. 8—To Martha A. Franklin.....	\$560 00	
	<hr/>	560 00
No. 9—To Nellie MacDonald.....	\$500 00	
	<hr/>	500 00
No. 10—To Martha A. Neal.....	\$560 00	
Susie L. Watson.....	66 62	
	<hr/>	626 62
No. 11—To Isabella McAnulty.....	\$560 00	
	<hr/>	560 00
No. 12—To Minnie C. Smith.....	\$560 00	
	<hr/>	560 00
No. 13—To Cornelia M. Davis.....	\$560 00	
	<hr/>	560 00
No. 14—To Marietta Hill,.....	\$550 71	
Isabella A. Perkins.....	31 50	
	<hr/>	582 21
No. 15—To Abbie R. Worthley.....	\$560 00	
	<hr/>	560 00
No. 16—To Nellie Kohawn.....	\$560 00	
	<hr/>	560 00
No. 17—To Sarah C. Fiske.....	\$550 00	
Frances M. Talbot.....	10 00	
	<hr/>	560 00
No. 18—To Eliza Cowley	\$560 00	
	<hr/>	560 00
No. 19—To Aliee T. Owens.....	\$500 00	
	<hr/>	500 00
	<hr/>	
<i>Amount carried forward</i> ,.....		\$67,833 90

Amount brought forward, \$67,833 90

Paid for INSTRUCTION :

PRIMARY SCHOOLS.

No. 20—To Mary L. McSorley.....	\$430 00	
		430 00
No. 21—To Nellie F. Baker.....	\$275 00	
Delia L. Naylor.....	21 50	
Martha S. Williams,.....	230 00	
		526 50
No. 22—To Ella E. Gardner.....	\$560 00	
		560 00
No. 23—To Ellen A. Corbett	\$495 00	
		495 00
No. 24—To Ellen A. Bridge....	\$560 00	
		560 00
No. 25—To Aurelia L. Howe.....	\$560 00	
		560 00
No. 26—To Charlotte E. Brown.....	\$560 00	
Marietta McEvoy.....	111 99	
		671 99
No. 27—To Mary E. Drew.....	\$560 00	
		560 00
No. 28—To Mary E. Corbett.....	\$498 30	
Ida J. Flint.....	249 37	
		747 67
No. 29—To Jennie F. Woodward.....	\$560 00	
		560 00
No. 30—To Alice L. Frye.....	\$560 00	
		560 00
No. 31—To Laura E. Lee.....	\$560 00	
Flora H. Sprague.....	73 62	
		633 62
No. 32—To Ella F. Coughlan.....	\$560 00	
		560 00
No. 33—To Amanda M. Hadley.....	\$560 00	
		560 00
No. 34—To Lizzie S. Lowe.....	\$560 00	
		560 00
No. 35—To Clara A. Emerson.....	\$560 00	
Clara A. Eaton.....	56 76	
		616 76
No. 36—To Mary A. Beard.....	\$560 00	
Lottie M. Furnald.....	128 75	
		688 75
No. 37—To Mercina F. Whitehorn.....	\$385 00	
		385 00
<i>Amount carried forward</i> ,.....		\$78,069 19

Amount brought forward,..... \$78,069 19

Paid for INSTRUCTION:

PRIMARY SCHOOLS.

No. 38—To Mary O. Kidder.....	\$330 00	
Lottie M. Fernald.....	168 87	
		498 87
No. 39—To Abbie L. Sargent.....	\$560 00	
Nellie G. Gilman.....	244 88	
		804 88
No. 40—To Sarah E. Scales.....	\$560 00	
		560 00
No. 41—To Lilla J. Greenhalge.....	\$560 00	
		560 00
No. 42—To Lizzie M. Hadley.....	\$560 00	
		560 00
No. 43—To Nellie M. Brown.....	\$560 00	
		560 00
No. 44—To Mary L. Hill.....	\$560 00	
		560 00
No. 45—To Ella M. White.....	\$560 00	
Frances M. Talbot.....	48 62	
		608 62
No. 46—To Ella A. Bailey.....	\$560 00	
Laura H. Palmer.....	21 50	
Mary I. A. Tibbetts.....	155 63	
		737 13
No. 47—To Mary F. Beane.....	\$434 19	
		434 19
No. 48—To Marion A. Scott.....	\$444 80	
Laura H. Palmer.....	62 51	
		507 31
No. 49—To Sara A. Swan.....	\$560 00	
		560 00
No. 50—To Marion J. Stevenson.....	\$500 00	
Kate G. Jones.....	246 25	
		746 25
No. 51—To Mary J. Alger.....	\$560 00	
		560 00
No. 52—To Lucretia A. Day.....	\$550 00	
Jennie Emerson.....	10 00	
		560 00
No. 53—To Charlotte McDaniels.....	\$560 00	
		560 00
No. 54—To Agnes I. Meldrum.....	\$560 00	
		560 00
<i>Amount carried forward</i> ,.....		\$88,006 44

Amount brought forward,..... \$88,006 44

Paid for INSTRUCTION :

PRIMARY SCHOOLS.

No. 55—To Stella J. Allen.....	\$430 00	
	<hr/>	430 00
No. 56—To Elizabeth A. Balch.....	\$555 00	
Belle G. Dunlap.....	5 00	
	<hr/>	560 00
No. 57—To Belle T. Vinal.....	\$560 00	
	<hr/>	560 00
No. 58—To Ellen M. Holden.....	\$560 00	
	<hr/>	560 00
No. 59—To Alice T. Lee.....	\$500 00	
	<hr/>	500 00
No. 60—To Jennie C. Boardman.....	\$560 00	
Henrietta Prescott.....	175 02	
	<hr/>	735 02
No. 61—To Helen M. Brown.....	\$560 00	
	<hr/>	560 00
No. 62—To Clara B. Horne.....	\$560 00	
	<hr/>	560 00
No. 63—To Emma J. Miller.....	\$560 00	
Isabella A. Perkins.....	21 00	
	<hr/>	581 00
No. 64—To Delia T. Brady.....	\$560 00	
Mary J. McCarry.....	78 75	
Josephine Whitten.....	79 99	
	<hr/>	718 74
No. 65—To M. Carrie Stiles.....	\$500 00	
Lizzie A. Brickett.....	25 00	
	<hr/>	525 00
No. 66—To Katie F. Fay.....	\$352 50	
	<hr/>	352 50
No. 67—To Clementine H. Bowers.....	\$560 00	
Mary E. Butman.....	118 12	
	<hr/>	678 12
No. 68—To Mary McLaughlin.....	\$434 19	
Helen S. Durgin.....	250 62	
	<hr/>	684 81
No. 69—To Marietta F. Crowley.....	\$434 19	
	<hr/>	434 19
No. 70—To Abbie V. Wheeler.....	\$434 19	
Eva M. Hardy.....	9 00	
Helen J. Gookin.....	41 88	
	<hr/>	485 07

Amount carried forward,..... \$96,930 89

Amount brought forward,..... \$96,930 89

Paid for INSTRUCTION:

PRIMARY SCHOOLS.

No. 71—To Ida T. Hardy.....	\$244 19	
Josie Whitten.....	52 51	
Nellie T. O'Grady.....	79 37	
Mary J. McCarry.....	94 99	
	<hr/>	471 06
No. 72—To Anna Kohawn.....	\$289 19	
	<hr/>	289 19
No. 73—To Mary J. Mead.....	\$162 49	
	<hr/>	162 49
No. 74—To Belle F. Bachelder....	\$ 11 25	
Frances M. Talbot.....	6 50	
Anna Kohawn.....	145 00	
	<hr/>	162 75
No. 75—To Mary I. A. Tibbets.....	\$ 20 62	
	<hr/>	20 62

MILL SCHOOL.

To Belle F. Bachelder.....	\$ 37 50	
Belle G. Dunlap.....	30 00	
Marion E. Green.....	30 00	
Marietta McEvoy.....	37 50	
	<hr/>	135 00
		<hr/>
		\$98,172 00

Paid for SERVICES OF TRUANT
OFFICERS:

To Bickford Lang.....	\$750 00	
William H. Bermingham.....	750 00	
Robert L. Read.....	8 33	
	<hr/>	1,508 33

Paid for SERVICES OF JANITORS:

To Mary Barrington.....	\$ 94 52	
Ellen Cogger.....	141 00	
Ann Connors.....	139 00	
Aufort Coburn.....	47 26	
Joseph Convery.....	210 00	
John Donohoe.....	652 00	
Eliza Freeman.....	139 00	
Aurelia L. Howe.....	47 26	
Marietta Hill.....	47 26	
Dennis Kohawn.....	152 50	
	<hr/>	
<i>Amounts carried forward</i> ,	\$1,669 80	\$99,680 33

Amounts brought forward,..... \$1,669 80 \$99,680 33

Paid for SERVICES OF JANITORS :

To A. H. Livermore.....	590 00	
F. A. Livermore.....	166 00	
William Lovejoy.....	94 52	
Job Moody.....	590 00	
Andrew Maguire.....	662 00	
Michael McDermott.....	592 00	
Charles Price.....	47 26	
Patrick Quinn.....	516 25	
Daniel Reynolds.....	584 50	
W. N. Roberts.....	588 00	
Wyatt Stevens.....	592 00	
Aaron Scadding.....	501 50	
Julius C. Jockow.....	590 00	
John Quinn.....	13 00	
Dennis Cummings.....	183 00	
		<hr/>
		\$7,979 83

Paid for BOOKS, STATIONERY,
ETC. :

To Baker Pratt & Co. for "Tellurian Globe".....	\$30 00
E. Burgess, for paper, pencils and penholders	9 50
Abram Brown, for books.....	148 45
C. C. Chase, for cash paid for books, etc.....	28 43
F. P. Coggeshall, for books, sta- tionery, etc.....	832 96
Coughlin & Co., for books, sta- tionery, etc.....	248 70
H. C. Church, for inkstand.. ..	1 75
George W. Cromack, for books....	55 00
Frost & Adams, for paper and cutting,	15 50
J. W. C. Gilman & Co., for paper, pencil sharpeners, etc.....	22 36
Ginn & Heath, for books.....	818 56
Houghton, Mifflin & Co., for books,	33 59
Marston & Prince, for books, sta- tionery, etc.....	371 52
J. Merrill & Son, for books, sta- tionery, etc.....	656 44
Charles Morrill, for cash paid for books.....	12 00
George G. McLean, for pencils.....	16 00

Amounts carried forward,..... \$3,300 76 \$107,660 16

Amounts brought forward..... \$3,300 76 \$107,660 16

Paid for BOOKS, STATIONERY,
ETC. :

To The Nursery, for books.....	20 00	
New Eng. School Furnishing Co., for books.....	44 00	
Henry C. Nash, for books.....	10 00	
Thompson, Brown & Co., for books,	569 64	
William Ware & Co., for books.....	27 00	
Abel Whitney, for books, station- ery, etc.....	272 15	
W. H. Worcester & Co., for Scien- tific American and Journal of Chemistry.....	8 00	
	<hr/>	4,251 55

Paid for PRINTING, ADVERTIS-
ING, BINDING, ETC. :

To Bacheller, Dumas & Co., for blank books, printing, binding, etc.....	\$ 68 65	
Brown & Gove, for printing.....	57 00	
L. Brown & Co., for printing.....	4 50	
Bufford's Publishing, Engraving and Lithographic House, for diplomas	30 00	
Campbell & Hanscom, for printing and advertising.....	19 65	
Huse, Goodwin & Co., for printing and advertising.....	112 50	
C. L. Knapp & Son, for printing and advertising.....	150 68	
Lowell Weekly Sun, for advertising.	2 00	
Marden & Rowell, for printing and advertising.....	548 30	
Stone, Bacheller & Livingston, for printing and advertising.....	86 87	
W. S. Simons, for posting bills.....	5 60	
	<hr/>	1,083 65

Paid for FUEL :

To Appropriation for Roads and Bridges, for wood and labor on coal.....	\$901 33	
Appropriation for Paupers, for wood,	236 50	
P. Doherty, for teaming coal.....	1 50	
Wm. E. Livingston, for coal.....	5,267 74	
F. H. Parker, for coal.....	35 00	
	<hr/>	6,442 07

Amount carried forward..... \$119,437 43

Amount brought forward,..... \$119,437 43

Paid for SUNDRIES :

To Appropriation for School Houses, for lumber, hardware, desk, labor, etc.,	\$220 75
Appropriation for Roads and Bridges, for surveys and plans of school houses, labor, etc.....	258 18
Appropriation for Paupers, for labor,	62 00
Appropriation for Public Buildings, for lumber, labor, etc.....	990 76
Appropriation for Water Works, for use of water.....	916 17
Appropriation for Water Works, for pipe, fittings, etc.....	10 51
Charles E. Adams, for paint, pail and hardware.....	15 78
H. A. Fielding, for lines, hardware, etc.	37 10
Horace B. Shattuck, for hardware..	48 79
Frederick Taylor, for netted acorns, hardware, etc.....	123 04
James Barris, for iron and labor....	7 55
H. R. Barker, for pipe, valves, fit- tings, hose, couplings, labor, etc.,	380 66
J. P. Barrington, for repairing stoves, furnaces, etc.....	25 00
Cole & Nichols, for grate bars and grates	66 03
J. A. Chamberlain, for labor on cans,	1 50
T. Costello & Co., for pipe, water fixtures, plumbing, etc.....	177 57
George L. Cady, for harness eyes...	1 25
T. H. Curtis, for repairing locks....	70
Richard Dobbins, for inspecting boil- ers, castings, labor, etc	108 90
J. E. Griffin, for repairing pump....	2 50
T. R. Garity, for pipe, fittings, labor, etc.	646 74
John Gilchrist, for pipe, fittings, labor, etc.....	7 39
Frank P. Hill & Co., for steel and iron	68
S. G. Mack & Co., for grates, ink pots, basins, dippers, labor, etc..	73 28
Pevey Bros., for desk castings and labor.....	45 71

Amounts carried forward,..... \$4,228 54 \$119,437 43

Amounts brought forward \$4,228 54 \$119,437 43

Paid for SUNDRIES :

To Rice & Co , for coal sifters and wire cloth	5 90
N. J. Wier & Co., for coal hods, repairing stoves, cups, etc.	28 92
H. H. Wilder & Co., for packing, coal hod, grates, mica, pipe, wire, rods, fire brick, labor, etc.	93 29
D. H. Wilson & Co., for copper, copper chamber and labor	16 87
Milton Aldrich, for thumb screws	1 50
A. L. Brooks & Co., for lumber	50 91
A. P. Bateman, for lumber	6 36
Howes & Burnham, for lumber	22 46
A. Keddie, for sawing lumber	16 65
A. Lake, for lumber, labor and moulding	4 60
M. C. Pratt & Co., for lumber and moulding	26 47
Whitney & Tibbetts, for lumber	22 44
Buffalo Dental Manufacturing Co., for blow pipes	13 20
G. C. Brock, for thermometers	8 25
R. S. Clifford, for clocks and repairing clocks	44 75
G. W. Dudley, for repairing clocks	12 50
George Thatcher, for repairing clocks and hanging bells	39 25
Buttrick & Co., for salt	65
C. B. Coburn & Co., for brushes, alcohol, shellac, rope, waste, japan, spirits turpentine, oil, asphaltum, benzine, etc.	283 17
H. C. Church, for paper	23 57
Carleton & Hovey, for carbolate of lime, insect powder, alcohol, sulphur and ether	70 68
Mrs. William Connors, for soap	2 50
Fuller, Clark & Fuller, for salt	70
French & Puffer, for plates, nappies, saucers, brooms, pails and baskets,	25 00
Fiske & Spalding, for curtains, fixtures, paper, map fixtures, etc.,	47 22
Gillard & Whipple, for soap	11 00
Hartwell & Co., for matches	2 10

Amounts carried forward 5,109 45 \$119,437 43

<i>Amounts brought forward</i>	\$5,109 45	\$119,437 43
Paid for SUNDRIES:		
To Jonathan Kendall, for oil, alcohol, brushes, ammonia, shellac, whiting and glue.....	110 57	
A. L. Kittredge, for paper.....	5 00	
C. R. Kimball, for insect powder, filtering paper, carbonate soda, and flowers.....	6 95	
Lowell Felting Mills, for felt.....	13 79	
Wm. E. Livingston, for brick, kao- lin, lime and sand.....	9 57	
E. H. Lord, for cash paid for chemi- cals, express, copper tank, etc...	154 68	
A. McSorley, for matches.....	6 30	
C. P. Talbot & Co., for chemicals, oil, vitriol and ammonia.....	21 05	
E. F. Taylor, for crayons and erasers, Whitall, Tatum & Co., for flasks and tubes.....	3 00	
A. F. Wright, for salt.....	31 55	
H. J. & E. B. Adams, for feather dusters, handles, chairs, etc.....	88	
Adams & Co., for chairs.....	139 33	
Benner Brothers, for stools, carpet- ing and feather dusters.....	38 15	
W. T. Bradley, for carpeting.....	57 50	
Crosby Furniture Co., for labor on desks.....	115 50	
Lowell Manufacturing Co., for car- peting, lining and labor.....	49 60	
Offut & Whittaker, for carpet lining, J. F. Puffer & Son, for enamelled cloth.....	132 19	
D. Crowley, for ribbon.....	1 20	
J. P. Folsom, for cotton cloth.....	7 80	
J. V. Keyes, for towels and cotton cloth.....	12 50	
New England Mat Factory, for mats, Amelia Taylor, for reseating chairs, Irvin A. Foote, for labor and tuning pianos.....	3 75	
J. L. Hammett, for ink wells, numer- cal frames, beads, etc.....	4 60	
Parmenter & Walker, for crayons...	47 52	
Daniel M. Reed & Co., for chromatic pipes.....	2 00	
	36 00	
	17 80	
	62 50	
	9 00	
<i>Amounts carried forward</i>	\$6,209 73	\$119,437 43

Amounts brought forward, \$6,209 73 \$119,437 43

Paid for SUNDRIES :

To Austin & Carleton, for use of piano,	5 00
George F. Willey, for use of horse and carriage.....	80 00
Lowell Gas Light Co., for gas.....	113 04
S. D. Butterworth, for mason work and material.....	61 04
F. M. Merrill, for mason work and material.....	53 69
D. M. Prescott, for mason work and material.....	128 38
Dennis Cummings, for white- washing, etc.....	12 75
Julius C. Jockow, for white- washing, etc.....	60 00
A. H. Livermore, for whitewash- ing, etc.....	48 00
F. A. Livermore, for whitewash- ing, etc.....	12 00
Job Moody, for whitewashing, etc..	38 00
Michael McDermott, for whitewash- ing, etc.....	70 00
Patrick Quinn, for whitewashing, etc.,	40 25
Daniel Reynolds, for whitewash- ing, etc.....	46 00
W.N. Roberts, for whitewashing, etc.,	58 00
Wyatt Stevens, for whitewash- ing, etc.....	57 87
M. Leslie Allen, for postal cards, tape and services at exhibition of drawings.....	25 83
Isabella Coburn, for services at exhi- bition of drawings.....	2 00
H. J. Leavitt, for services at exhibi- tion of drawings.....	3 00
F. W. Stickney, for services at exhi- bition of drawings.....	12 25
Helen W. Wright, for services at exhibition of drawings, etc.....	4 75
Helen A. Whittier, for services at exhibition of drawings.....	3 00
James W. Cummiskey, for taking and recording census of school children,	75 51
E. W. Carleton, for taking and recording census of school children,	83 73

Amounts carried forward..... \$7,303 82 \$119,437 43

Amounts brought forward..... \$7,303 82 \$119,437 43

Paid for SUNDRIES :

Sumner Sargent, for taking and recording census of school children,	91 61	
C. C. Chase, for cash paid for services of orchestra.....	35 00	
B. Harrison, for cash paid for cards, and filling High School Diplomas,	16 00	
Charles Morrill, for cash paid for stamps and expenses of committee to Fall River.....	25 55	
Odell D. Bartlett, for ringing bell...	10 00	
C. E. Goddard, for ringing bell....	20 00	
Frank L. Morey, for ringing bell....	30 00	
George H. Wilkins, for ringing bell,	10 00	
W. S. Simons, for distributing reports	22 50	
George E. Abbot, for plans and specifications for school house on Kirk street.....	200 00	
E. H. Morse, for carriage hire.....	2 00	
H. O. Morse, for carriage hire.....	2 00	
James Critchett, for labor with team,	12 00	
W. H. Livingston, for labor with team	8 00	
D. P. Knowlton, for labor with team,	15 50	
J. C. Little, for labor with team....	2 50	
Daniel McCarthy, for labor with team,	2 50	
James Nixon, for labor with team...	50	
William Roberts, for labor with team,	7 00	
Frank A. Smiley, for labor with team,	2 00	
Francis S. Smith, for labor with team,	4 00	
Samuel Tompkins, for labor with team	2 00	
George Sheldon, for rent of school house on Grand street.....	100 00	
L. E. Shephard, Agent, for rent of room in Convers' hall.....	25 00	
Boston and Lowell Railroad, for transportation.....	1 19	
Lovejoy's & Co.'s Express, for transportation.....	4 60	
Penniman & Co.'s Express, for transportation.....	12 05	
	<hr/>	7,967 32

Amount carried forward..... \$127,404 75

Amount brought forward..... \$127,404 75

EVENING SCHOOLS.

Paid for INSTRUCTION :

No. 1—To James F. Walsh.....	\$136 00
R. Alice Johnson.....	4 00
Ada Martin.....	68 00
Hannah P. Wright....	68 00
Emma G. French.....	65 00
Charlotte E. Racao.....	49 00
Ella L. Wright.....	68 00
Belle F. Bachelder.....	39 00
Mary J. Mead.....	66 00
M. Alice Bates.....	50 00
Mary E. Butman.....	68 00
Frances M. Talbot.....	50 00
Marietta F. Crowley.....	6 00
Gertrude Sheldon.....	104 50
Abbie V. Wheeler.....	8 00
Lottie M. Furnald.....	25 00
Lizzie A. Brickett.....	68 00
Genevra M. Dunn.....	68 00
Frances M. Dennett.....	67 00
Ida E. Bisbee.....	51 00
Eva M. Hardy.....	68 00
W. D. Parthenois.....	23 00
Susie L. D. Watson.....	26 00
Isabella A. Perkins.....	26 00
Lizzie A. Butman.....	26 00
Gertrude Lovejoy.....	26 00
Edith F. Walker.....	25 00
Lizzie C. Kennedy.....	16 00
	<hr/>
	\$1,364 50

No. 2—To George P. Gardner.....	134 00
Ida J. Flint.....	66 00
Alice M. Sanborn.....	66 00
Mary J. McCarry.....	66 00
Flora H. Sprague.....	66 00
Mary A. Swan.....	65 00
Lizzie F. Lamere.....	66 00
Luella E. Welch.....	65 00
Josephine Whitten.....	65 00
Nellie T. O'Grady.....	66 00
Hattie B. Frye.....	66 00
Katie J. Hayes.....	15 00

<i>Amounts carried forward</i>	<hr/>	<hr/>
	\$2,170 50	\$127,404 75

Amounts brought forward..... \$2,170 50 \$127,404 75

EVENING SCHOOLS.

Paid for INSTRUCTION :

No. 1—To Nellie Keefe.....	15 00
Anna Kohawn.....	15 00
Mary McLaughlin.....	15 00
Martha A. Paul.....	66 00
Marietta McEvoy.....	23 00
Clara A. Eaton.....	23 00
Carrie F. Smith.....	23 00
Belle G Dunlap.....	23 00

\$2,373 50

No. 3—To Fred. G. Daley.....	116 00
Kate G. Jones.....	40 00
Katie F. Fay.....	41 00
Nellie M. Davis.....	65 00
Marion E. Green.....	66 00
Lena A. Gookin.....	41 00
Helen J. Gookin.....	74 00
Frederick P. Marble.....	10 00
Mary E. Rogers.....	22 00
Mary McArthur.....	24 00
Cora F. Adams.....	14 00
Mary A. Murkland.. ..	7 00

\$2,893 50

No. 4—To Eliza A. Davis.....	102 50
Minnie F. Wing.....	5 00
Ida T. Hardy.....	17 00
Mary I. A. Tibbetts.....	66 00
Amy L. Tucke.....	42 00
Henrietta Prescott.....	64 00
Laura H. Palmer.....	67 00
Addie F. Bennett.....	25 00
Ella Bradley.....	25 00
Hattie E. Morey.....	22 00
Addie Whitten.....	24 00
Cora F. Adams.....	1 00

\$3,354 00

High — To Stephen G. Bailey.....	84 00
Alice Adams.....	10 00
Mary C. Eno.....	50 00

Amounts carried forward..... \$3,498 00 \$127,404 75

Amounts brought forward..... \$3,498 00 \$127,404 75

EVENING SCHOOLS.

Paid for SERVICES OF JANITORS :

To John Donohoe.....	\$89 00
Joseph Hovey.....	68 00
Andrew Maguire.....	68 00
John H. Quinn.....	69 00
James Sheridan.....	74 00
John Warren.....	68 00
J. F. Convery.....	33 00
W. N. Roberts.....	1 00

\$3,968 00

Paid for SUNDRIES :

To Appropriation for Public Buildings, for labor.....	\$ 28 12
Proprietors of Locks and Canals, for rent of land on First street.....	20 00
Lowell Gas Light Co., for gas.....	221 54
Coughlan & Co., for books.....	42 30
J. Merrill & Son, for books, station- ery, etc.....	143 36
Marston & Prince, for books and stationery.....	30 38
Campbell & Hanscom, for advertising, Huse, Goodwin & Co., for printing and advertising.....	7 00
C. L. Knapp & Son, for advertising,	21 75
Lowell Weekly Sun, for advertising,	7 00
Marden & Rowell, for printing and advertising.....	4 00
Stone, Bacheller & Livingston, for advertising.....	7 00
W. S. Simons, for posting.....	5 00
Stickney & Spofford, for wicks and oil.....	13 50
D. McCarthy, for teaming.....	90
William Roberts, for teaming.....	1 00
Francis S. Smith, for teaming.....	3 50
	2 50

4,526 85

DRAWING SCHOOL.

Paid for INSTRUCTION :

To Kirkley Hyde.....	\$750 00
Pierre Millet.....	260 00
F. W. Stickney.....	615 00

Amounts carried forward..... \$1,625 00 \$131,931 60

Amounts brought forward..... \$1,625 00 \$131,931 60

DRAWING SCHOOL.

Paid for INSTRUCTION :

To Helen W. Wright.....	1,454 25
Ellen D. Carney.....	120 00
	<hr/>
	\$3,199 25

Paid for SUNDRIES :

To W. N. Roberts, services as janitor..	123 25
Appropriation for Public Buildings, for labor.....	67 19
Lowell Gas Light Co., for gas.....	254 97
Boston Architectural Terra Cotta Works, for modelling clay.....	11 61
Paul A. Garey, for repairing models,	12 25
Charles H. Allen, for sundries.....	10 00
C. B. Coburn & Co., for shellac....	25
Frost & Adams, for dividers.....	7 20
Fiske & Spalding, for manilla paper,	6 00
Moran & Dutton, for marble slab...	3 00
Frederick Taylor, for hardware.....	44
Campbell & Hanscom, for printing and advertising.....	12 50
Huse, Goodwin & Co., for advertis- ing.....	4 00
C. L. Knapp & Son, for printing and advertising.....	14 60
Lowell Weekly Sun, for advertising.	4 00
Marden & Rowell, for printing and advertising.....	15 75
Stone, Bacheller & Livingston, for printing and advertising.....	10 50
W. S. Simons, for posting.....	4 00
Penniman & Co.'s Express, for trans- portation.....	50
	<hr/>
	3,761 26

Whole expenditure for the year.....	\$135,692 86
Balance undrawn January 1, 1881..	8,694 24
	<hr/>
	\$144,387 10
	<hr/>

SCHOOL-HOUSES.

Balance undrawn January 1, 1880.....	\$ 5,994 77	
Appropriated and assessed in 1880.....	32,000 00	
	-----	\$37,994 77

RECEIPTS.

Received on account of SCHOOL-
HOUSES :

From Appropriation for Schools, for lum- ber, labor, etc.....	\$244 49	
Appropriation for Paupers, for labor, etc.....	36 55	
Appropriation for Police, for sun- dries.....	4 97	
Appropriation for Fire Department, for sundries.....	269 58	
Appropriation for Commons, for lumber and labor.....	75 75	
Appropriation for Public Buildings, for lumber, labor, etc.....	17 00	
Appropriation for Library, for sun- dries.....	1 08	
Appropriation for City Hall Build- ing Lot, for sundries.....	17 20	
L. G. Howe, for old material and labor.....	22 71	
Geo. W. Harris, for old doors, etc.	225 00	
Frank S. Berry, for rent of tene- ment on Kirk street.....	250 00	
	-----	1,164 33
		\$39,159 10

EXPENDITURES.

Paid for SCHOOL-HOUSE ON
CHEEVER STREET:

To Sundry persons for labor as per pay-rolls	\$928 88
J. C. Bachelder, for labor on lumber..	1 13
A. P. Bateman, for lumber.....	302 82
A. L. Brooks & Co., for lumber....	17 34
Howes & Burnham, for lumber.....	30 42
M. C. Pratt & Co., for lumber.....	599 44
Whitney & Tibbetts, for lumber....	147 09
Gordon & Kimball, for stairs.....	150 00
William Kelley, for doors, sash and blinds.....	82 20
Charles E. Adams, for hardware....	21 14
H. A. Fielding, for hardware.....	2 17
H. B. Shattuck, for hinges.....	3 42
Frederick Taylor, for hardware.....	50 21
Pevey Brothers, for castings.....	223 53
T. R. Garity, for pipe, lead, sinks and labor.....	22 45
S. G. Mack & Co., for ventilators, stoves, pipe, zinc, register, labor, etc.....	150 80
F. M. Merrill, for mason work and materials.....	129 60
J. L. Moulton, for cement, gravel and labor.....	13 94
D. M. Prescott, for plastering.....	129 00
J. & P. O'Hearn, for putting in cellar and part of chimney.....	274 00
C. B. Coburn & Co., for lead, oil, glass, spirits turpentine and alcohol.....	43 86
Jonathan Kendall, for brushes, paint, putty and japan.....	10 41
Otis Merriam, for chairs.....	66 96
John S. Ellenwood, for gravel.....	14 67
N. Lemay, for gravel.....	11 33
J. P. White, for filling.....	49 98
Michael Campion, for services as watchman.....	9 00
D. P. Knowlton, for labor with team,	3 00
Timothy Kelley, for labor with team,	3 00
Daniel McCarthy, for labor with team,	3 00
Francis S. Smith, for labor with team,	1 50

Amount carried forward,.....

\$3,496 29

Amount brought forward,..... \$3,496 29

Paid for SCHOOL-HOUSE ON
KIRK STREET :

To Sundry persons, for labor as per pay-rolls.....	\$84 15	
F. M. Merrill, for taking down old building.....	180 00	
Robert Goulding, for removing slate, etc.....	19 50	
M. C. Pratt & Co., for lumber.....	37 59	
H. R. Barker, for labor.....	25	
Frederic Frye, for labor.....	26 25	
Artemas Merriam, for chairs.....	66 96	
B. G. Brown, for labor with team, and stone.....	14 00	
A. J. Calef, on account of contract for erection of building.....	6,000 00	
		*6,428 70

* This amount has been paid on account of the building, which is still unfinished.

Paid for LAND AND SCHOOL-
HOUSE ON TENTH STREET :

To William French, for 10,730 feet of land at 25 cents per foot.....	\$2,682 50	
Sundry persons, for labor as per pay-rolls.....	1,502 00	
Appropriation for Water Works, for service pipe, labor and use of water.....	8 45	
A. P. Bateman, for lumber.....	319 61	
A. L. Brooks & Co., for lumber....	30 96	
J. C. Bachelder, for lumber and labor,	355 51	
Davis & Sargent, for lumber.....	8 84	
Howes & Burnham, for lumber.....	195 23	
M. C. Pratt & Co., for lumber, moulding and labor.....	372 68	
A. Bachelder & Co., for doors and sash.....	75 00	
William Kelley & Son, for windows and blinds.....	105 45	
Gordon & Kimball, for stairs.....	150 00	
A. Lake, for rosettes, drops, etc....	17 02	
Charles E. Adams, for hardware....	23 64	
H. A. Fielding, for hardware.....	42 85	
Frederick Taylor, for hardware.....	83 68	
<i>Amounts carried forward</i> ,.....	\$5,973 42	\$9,924 99

Amounts brought forward, \$5,973 42 \$9,924 99

Paid for LAND AND SCHOOL-
HOUSE ON TENTH STREET:

To H. R. Barker, for pipe, fittings and labor.....	4 01	
T. Costello & Co., for plumbing, pipe, water fixtures and labor....	156 09	
S. G. Mack & Co., for ventilators..	48 00	
Rice & Co., for wire cloth and guards,	87 13	
H. H. Wilder & Co., for stoves, zinc, tin, solder and labor.....	102 69	
C. B. Coburn & Co., for paint, glass, oil, lead, putty and window cords,	146 37	
Jonathan Kendall, for japan and starch	1 96	
Benjamin G. Brown, for cellar, chimneys, piers and digging drains....	657 25	
J. L. Moulton, for cement, gravel and labor.....	61 25	
Sweatt & Davis, for window sills...	15 00	
D. M. Prescott, for plastering	200 00	
Robert Goulding, for slating.....	185 81	
Artemas Merriam, for chairs.....	66 96	
D. P. Knowlton, for labor with team,	2 50	
Timothy Kelley, for labor with team,	3 00	
Daniel McCarthy, for labor with team,	50	
Alphonso Merrill, for labor with team,	2 50	
F. S. Smith, for labor with team....	1 00	
		7,715 44

Paid for ADDITION TO HIGH-
SCHOOL:

To Sundry persons, for labor as per pay-rolls.....	\$453 06	
A. L. Brooks & Co., for lumber....	155 65	
J. C. Bachelder, for lumber and labor	4 09	
Howes & Burnham, for lumber.....	8 28	
M. C. Pratt & Co., for lumber, sash, blinds and doors.....	289 05	
William Kelley & Son, for doors and windows	20 00	
American Bolt Co., for rods and washers.....	9 42	
S. G. Mack & Co., for cornices, etc.	123 48	
Rice & Co., for wire cloth.....	26 91	
Sweatt & Davis, for stone and labor	10 00	
<i>Amounts carried forward.....</i>	\$1,099 94	\$17,640 43

<i>Amounts brought forward.....</i>	\$1,099 94	\$17,640 43
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Paid for ADDITION TO HIGH-SCHOOL:

To S. H. Weaver & Son, for roofing....	120 00	
C. B. Coburn & Co., for red lead and venetian red.....	2 10	
Jonathan Kendall, for glass, putty, benzine, etc.....	37 57	
J. L. Moulton, mason work and material.....	1,724 31	
Rollins & Sargent, for plastering...	127 00	
Daniel McCarthy, for labor with team	1 50	
	<hr/>	3,112 42

Paid for LAND ON PINE AND WILDER STREETS:

To Robert G. Bartlett and Ethan A. Smith, for 44,001 feet of land at the corner of Pine and Wilder streets, at 12 cents per foot.....	\$5,280 12	
	<hr/>	5,280 12

Paid for SUNDRIES:

To Sundry persons, for labor as per pay-rolls.....	\$2,102 54	
Appropriation for Roads and Bridges, for labor, flagging and services of engineer.....	196 17	
Appropriation for Fire Department, for old brick, boards and labor...	22 18	
Appropriation for Sewers and Drains, for labor.....	143 58	
Appropriation for Commons, for lumber and shingles.....	12 50	
Appropriation for Water Works, for use of water, pipe and labor.....	37 24	
Otis Allen & Son, for lumber, shavings and sawdust.....	152 28	
A. L. Brooks & Co., for lumber....	68 17	
A. P. Bateman, for lumber.....	73 06	
J. C. Bachelder, for lumber and labor	1 89	
Davis & Sargent, for lumber.....	7 09	
Howes & Burnham, for lumber.....	460 03	
William Kelley & Son, for sash, blinds and door.....	23 55	
A. Keddie, for sawing lumber.....	17 50	

<i>Amounts carried forward.....</i>	\$3,317 78	\$26,032 97
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Amounts brought forward..... \$3,317 78 \$26,032 97

Paid for SUNDRIES :

To M. C. Pratt & Co., for lumber and labor	273 62
Whitney & Tibbetts, for lumber....	660 41
C. E. Adams, for hardware and brushes	39 40
H. A. Fielding, for hardware.....	24 85
H. B. Shattuck, for hardware.....	64 92
Frederick Taylor, for hardware, etc..	146 05
American Bolt Co., for labor on bolts	1 08
H. R. Barker, for railing and labor..	35 50
James Barris, for right angles.....	50
T. Costello & Co., for pipe radiators, water fixtures, labor, etc.....	249 45
J. A. Chamberlain, for roofing, zinc, and solder.....	15 63
Chelmsford Foundry Co., for castings	2 00
George L. Cady, for harness eyes...	10 60
T. R. Garity, for pipe, hooks and labor	4 94
Frank P. Hill & Co., for steel.....	41
S. G. Mack & Co., for paint, pail, labor, brush, castings, etc.....	22 10
Pevey Bros., for castings and labor..	179 42
Rice & Co., for wire cloth and screens	12 38
H. H. Wilder & Co., for ventilators, pipe, cement and labor.....	99 44
G. S. Wilson, for hinges.....	75
S. D. Butterworth, for mason work and material.....	55 06
T. D. Bailey, for whitewashing.....	33 50
John Burch, for whitewashing, etc..	144 25
E. W. Coburn, for mason work and material.....	113 61
Charles A. Kendall, for drain pipe, labor, etc.....	34 54
L. F. Kittredge, for drain pipe, bends and traps.....	74 53
Wm. E. Livingston, for cement, sand and lime.....	17 22
J. L. Moulton & Son, for mason work and material.....	6 69
F. M. Merrill, for brick, cement, clay, sand and labor.....	123 01
John L. Powers, for whitewashing..	26 50

Amounts carried forward..... \$5,790 14 \$26,032 97

Amounts brought forward..... \$5,790 14 \$26,032 97

Paid for SUNDRIES :

To Rollins & Sargent, for mason work and material.....	42 59
Sweatt & Davis, for stone and labor.....	8 40
Staples Brothers for drain pipe, traps and bends.....	30 94
E. A. & A. T. Smith, for concrete..	71 70
Robert Goulding, for slate, tin, zinc and labor.....	14 01
William Waugh, for slate, tin, zinc and labor.....	10 24
B. Libby, for repairing lightning rods,	10 00
Frank E. Shaw, for cash paid J. O. Whittemore for repairing lightning rods.....	19 00
Buttrick & Co., for grass seed.....	50
C. B. Coburn & Co., for glass, brushes, japan, dusters, asphaltum, oil, lead, spirits turpentine, halliards and graining color.....	288 42
H. C. Church, for paper and crimson,	1 29
Fiske & Spalding, for glass, oil, lead, varnish, brushes, alcohol and shellac.....	405 21
Jonathan Kendall, for oil, shellac, japan, brushes, paint and putty...	60 60
Kelley & Alexander, for lanterns...	3 40
Nichols & Fletcher, for powder and fuse.....	1 41
S. N. Wood & Son, for grass seed..	1 51
Artemas Merriam, for chairs.....	63 24
Rice & Murphy, for ornamental trees,	15 00
Cahill Brothers, for shoeing horse...	29 25
L. G. Howe, for keeping horse.....	189 00
Boston Daily Advertiser, for advertising.....	13 50
Campbell & Hanscom, for advertising.....	13 08
Huse, Goodwin & Co., for advertising.....	9 00
C. L. Knapp & Son, for advertising,	5 50
Lowell Weekly Sun, for advertising,	1 00
Marden & Rowell, for advertising...	12 98
Stone, Bacheller & Livingston, for advertising.....	13 16
F. P. Coggeshall, for blank book...	1 00

Amounts carried forward, \$7,125 07 \$26,032 97

Amounts brought forward..... \$7,125 07 \$26,032 97

Paid for SUNDRIES:

To Lowell District Telephone Co., for telephone service.....	25	
Benjamin G. Brown, for labor with team.....	7 75	
James Cowell, for labor with team..	3 00	
Jeremiah Daly for labor.....	7 50	
Patrick Devine, for labor.....	1 50	
A. W. Heald, for labor with team...	1 00	
D. P. Knowlton, for labor with team,	14 50	
Timothy Kelley, for labor with team,	1 00	
James Leach, for labor with team...	3 50	
J. C. Little, for labor with team....	7 00	
Daniel McCarthy, for labor with team,	2 00	
William Roberts, for labor with team,	61 50	
Francis S. Smith, for labor with team,	5 00	
John Watson, for labor with team...	3 50	
James Nixon, for labor with team...	1 00	
		7,245 07
Whole expenditure for the year.....		\$33,278 04
Balance undrawn January 1, 1881.....		5,881 06
		<u>\$39,159 10</u>

ROADS AND BRIDGES.

Balance undrawn January 1, 1880.....	\$ 111 67	
Appropriated and assessed in 1880.....	70,000 00	
	<hr/>	\$70,111 67

RECEIPTS.

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC. :

IN JANUARY.

From Appropriation for School-Houses, for sundries.....	\$ 53 25	
Reserved Fund, for sundries.....	7 25	
Appropriation for Paupers, for sun- dries.....	649 55	
Appropriation for Fire Department, for sundries.	32 20	
Appropriation for Sewers and Drains, for sundries.....	1,353 75	
Appropriation for Lighting, for sundries.....	34 69	
Appropriation for Water Works, for sundries.....	356 90	
Laura W. Pearson, for edgestone,	25 00	
County of Middlesex, for labor...	11 50	
O. Blodget, for hogs.....	188 70	
Patrick O'Niel, for brick.....	2 67	
George F. Penniman, for edge- stone and labor.....	38 34	
Ezra B. Adams, for edgestone and labor.....	66 38	
O. A. Simpson, for stone.....	56 25	
	<hr/>	
<i>Amounts carried forward,</i>	\$2,876 43	\$70,111 67

Amounts brought forward, \$2,876 43 \$70,111 67

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN JANUARY.

From Boston & Lowell Railroad, for la- bor, etc.....	51 38
Heirs of O. M. Whipple, for side- walk assessment, Agawam street,	48 00
Edward P. Hoole, for sidewalk assessment, Westford street....	18 20
Thomas Coleman, for sidewalk assessment Abbott street.....	28 76
Peter Tierney, for sidewalk assess- ment, Union street.....	37 94
Francis McCluskey, for sidewalk assessment, Union street.....	25 24
John Coughlan, for sidewalk as- sessment, Agawam street.....	14 00
Patrick Handley, for sidewalk as- sessment, Abbott street.....	18 68
Michael Fallon, for sidewalk as- sessment, Little street.....	16 50
Thomas D. Bailey, for sidewalk assessment, Spalding street....	68 47
John Cochran, for sidewalk assess- ment, Agawam street.....	14 00
Estate of Elizabeth Skelton, for sidewalk assessment, Westford street.....	17 08
Thomas Fennelly, for sidewalk as- sessment. Agawam street.....	28 20
Daniel McCarthy, for sidewalk as sessment, Abbott street.....	24 54
Absalom Parsons, for sidewalk as- sessment, Westford street....	17 32
Henry Wilkins, for sidewalk as- sessment, Myrtle street.....	15 70
Mary Burke, for sidewalk assess- ment, Abbott street.....	18 04
Patrick Tierney, for sidewalk as- sessment, Abbott street.....	18 77
S. H. Jones, for sidewalk assess- ment, Gates street.....	33 16

Amounts carried forward..... \$3,390 41 \$70,111 67

<i>Amounts brought forward.....</i>	\$3,390 41	\$70,111 67
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Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.

IN JANUARY.

From John Buttermore, for sidewalk as- essment, Agawam street.....	14 00	
Heirs of Charles Going, for side- walk assessment, Chapel street..	21 27	
P. & F. Mollahan, for sidewalk assessment, Agawam street....	31 50	
Patrick Mooney, for sidewalk as- essment, Agawam street.....	14 31	
Francis Carll, for sidewalk assess- ment, Westford street.....	106 46	
Francis Carll, for sidewalk assess- ment, Westford street.....	16 03	
Daniel Swan, for sidewalk assess- ment, East Merrimack street...	48 54	
Abel M. Ayer, for sidewalk assess- ment, Carleton street.....	20 40	
Dennis Doyle, for sidewalk assess- ment, Abbott street.....	17 77	
William O'Callahan for sidewalk assessment, Abbott street.....	17 60	
Margaret Coleman, for sidewalk assessment, Abbott street.....	16 95	
Michael Fagan, for sidewalk assess- ment, Agawam street.....	28 00	
John Welch, for sidewalk assess- ment, Abbott street.....	28 74	
Prescott C. Gates, for sidewalk assessment, East Merrimack st.	37 00	
Lawrence Roach, for sidewalk assessment, Union street.....	39 50	
M. J. Coleman, for sidewalk as- essment, Chapel street.....	27 81	
Charles Dulligan, for sidewalk assessment, Agawam street....	14 00	
L. Hayes, for sidewalk assessment, Abbott street.....	26 70	
Susan Conway, for sidewalk assess- ment, Cross street.....	17 41	
William Cross, for sidewalk assess- ment, Cushing street.....	31 75	
<i>Amounts carried forward,.....</i>	\$3,966 15	\$70,111 67

Amounts brought forward..... \$3,966 15 \$70,111,67

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN JANUARY.

From William French, for sidewalk as- essment, Myrtle street.....	90 97	
Jonas Stowell, for sidewalk assess- ment, Abbott street.....	17 72	
E. G. Parker, for sidewalk assess- ment. Agawam street.....	97 80	
	<hr/>	4,172 64

IN FEBRUARY.

From Appropriation for Schools, for labor, etc.....	\$11 50	
Appropriation for School Houses, for labor, etc.....	17 25	
Appropriation for Paupers, for fuel, labor, etc.....	869 80	
Appropriation for Sewers and Drains, for labor.....	83 87	
Appropriation for Lighting, for keeping horse in 1879.....	389 28	
Reserved Fund, for sundries.....	12 00	
County of Middlesex, for labor...	3 00	
Henry Wilkins, for labor and edgestone.....	18 54	
Daniel Mehan, for sidewalk assess- ment, Agawam street.....	14 00	
Margaret McCourt, for sidewalk assessment, Union street.....	14 63	
Edward Mangan, for sidewalk assessment, Cedar street.....	12 63	
T. E. Parker, for sidewalk assess- ment, Cross street.....	28 71	
Richard Cuff, for sidewalk assess- ment, Agawam street.....	14 00	
Heirs of Ziba Abbott, for sidewalk assessment, Cedar street.....	12 09	
Peter Green, for sidewalk assess- ment, Cross street.....	28 89	
A. L. Kittredge, for sidewalk as- essment, Myrtle street.....	21 78	
Daniel Sherwood, for sidewalk assessment, Abbott street.....	18 48	
	<hr/>	
<i>Amounts carried forward</i>	\$1,570 45	\$74,284 31

<i>Amounts brought forward.....</i>	\$1,570 45	\$74,284 31
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Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN FEBRUARY.

From M. A. & T. Lynch, for sidewalk assessment, Abbott street.....	28 52	
John C. Cochran, for sidewalk assessment, Abbott street.....	39 99	
Daniel D. Caverley, for sidewalk assessment, Westford street....	17 25	
Peter Crudden, for sidewalk assess- ment, Gorham street.....	68 60	
Daniel A. Eaton, for sidewalk assessment, Myrtle street.....	15 59	
John A. Denton, for sidewalk assessment, Westford street....	24 71	
John A. Denton, for sidewalk assessment, Wilder street.....	49 28	
Heirs of Margaret McEvoy, for sidewalk assessment, Agawam street.....	81 41	
Paul Otis, for sidewalk assess- ment, Westford street.....	24 50	
Jane Scott, for sidewalk assess- ment, Cedar street.....	34 99	
Alvin Beard, for sidewalk assess- ment, Westford street.....	18 44	
Samuel H. Merrill, for sidewalk assessment, Westford street....	16 17	
Sylvester Bean, for sidewalk assessment, Sixth street.....	24 08	
	<hr/>	2,013 98

IN MARCH.

From Appropriation for Schools, for fuel, labor, etc.....	\$554 64	
Appropriation for Police, for la- bor, etc.....	11 37	
Appropriation for Fire Depart- ment, for coal, labor, etc.....	102 35	
Appropriation for Sewers and Drains, for labor, etc.....	69 99	
Appropriation for Lighting, for keeping horses.....	47 80	
	<hr/>	<hr/>
<i>Amounts carried forward....</i>	\$786 15	\$76,298 29

Amounts brought forward..... \$786 15 \$76,298 29

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN MARCH.

From Appropriation for Public Build- ings, for fuel and labor.....	5 50
Appropriation for Water Works, for keeping horses, etc.....	48 30
Reserved Fund, for labor, etc....	26 75
Philip Connors, for old wheels....	6 00
John C. Woodward, for stone....	9 10
James H. Abbott, for sidewalk assessment, Westford street....	56 42
John Gallagher, for sidewalk as- sessment, Cedar street.....	7 74
Butterworth & Gibby, for sidewalk assessment, Wilder street.....	99 85
Francis Carll, for sidewalk assess- ment, School street.....	19 40
John M. Green, for sidewalk as- sessment, School street.....	32 21
Charles S. Graves, for sidewalk assessment, Westford street...	40 74
Albert Smith, for sidewalk assess- ment, Wilder street.. ..	42 05
Sumner Howe, for sidewalk assess- ment, Wilder street.....	35 42
Andrew O'Roarke, for sidewalk assessment, Gorham street....	16 32
George B. McKenna, for sidewalk assessment, Cedar street.....	25 05
Heirs of J. V. Wardwell, for side- walk assessment, School street.	17 64
Patrick Keefe, for sidewalk assess- ment, Cedar street.....	11 98
Versil E. Roby, for sidewalk as- sessment, Westford street.....	47 32
V. L. Wilson, for sidewalk assess- ment, School street.....	16 08
Lawrence & Stanchfield, for side- walk assessment, Westford street	18 97
Stephen C. Davis, for sidewalk assessment, Gates street.....	31 50
Patrick McCann, for sidewalk as- sessment, Cedar street.....	21 09

Amounts carried forward..... \$1,421 58 \$76,298 29

<i>Amounts brought forward</i> ,.....	\$1,421 58	\$76,298 29
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Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN MARCH.

From Caroline C. Allen, for sidewalk assessment, Cushing street....	14 63	
	<hr/>	1,436 21

IN APRIL.

From Appropriation for Schools, for fuel, labor, etc.....	\$14 25	
Appropriation for School Houses, for labor.....	18 75	
Appropriation for Paupers, for fuel, labor, etc.....	1,828 64	
Appropriation for Fire Department, for fuel, labor, etc.....	208 79	
Appropriation for Sewers and Drains, for labor.....	193 73	
Appropriation for Lighting, for keeping horses.....	34 00	
Appropriation for Public Build- ings, for labor, etc.....	45 86	
Appropriation for Health, for use of teams, etc.....	204 00	
Appropriation for Commons, for labor and street scrapings....	62 73	
Appropriations for Water Works, for keeping horses.....	35 41	
Reserved Fund, for fuel and labor	96 34	
Edwin Lovejoy, for sewer in Dover street.....	18 04	
John F. Kimball, for stone.....	2 70	
H. A. & S. A. Coburn, for repair- ing cart.....	5 00	
Francis Goward, for flagging....	7 36	
James McManus, for concrete....	13 50	
Wm. G. Howe, for hauling stone..	1 88	
N. Peabody, for manure.....	7 00	
A. L. Ready, for old iron.....	7 37	
Simon B. Harris, for rent.....	180 00	
Bartlett Davis, for rent of land on Bowers street.....	12 00	
Edward J. Noyes, for wheels....	10 00	
Thomas J. McDuffee, for stone...	74 40	
	<hr/>	
<i>Amounts carried forward</i> ,.....	\$3,081 75	\$77,734 50

Amounts brought forward, \$3,081 75 \$77,734 50

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN APRIL.

From Timothy Sullivan, for sidewalk assessment, Agawam street....	23 75	
Timothy Sullivan, for sidewalk assessment, Agawam street....	42 00	
J. G. Merchant, for sidewalk assessment, Westford street.....	30 27	
Bridget McGlone, for sidewalk assessment, Cedar street.....	10 33	
John Moriarty, for sidewalk assessment, Cedar street.....	6 44	
Josiah Butler, for sidewalk assessment, Gorham street.....	102 20	
George N. Osgood, for sidewalk assessment, Westford street....	65 66	
Harvey & Manchester, for sidewalk assessment, Little street.....	18 65	
John Quinn, for sidewalk assessment, Westford street.....	26 25	
Patrick Rafferty, for sidewalk assessment, Cedar street.....	10 76	
B. F. Simpson, for sidewalk assessment, Westford street.....	51 87	
Owen McNamara, for sidewalk assessment, Abbott street.....	64 82	
Edward D. Holden, for sidewalk assessment, Wilder street.....	61 45	
M. C. Pratt & Co., for sidewalk assessment, Westford street....	25 02	
Alonzo J. Page, for sidewalk assessment, Westford street.....	18 20	
Highland M. E. Church, for sidewalk assessment, Grove street..	68 31	
Alonzo A. Coburn, for sidewalk assessment, Wilder street.....	24 95	
Ward S. Dudley, for sidewalk assessment, Grove street.....	33 00	
E. J. Medina, for sidewalk assessment, School street.....	31 66	
William G. Howe, for sidewalk assessment, Myrtle street.....	20 63	
<i>Amounts carried forward,</i>	<u>\$3,817 97</u>	<u>\$77,734 50</u>

Amounts brought forward,..... \$3,817 97 \$77,734 50

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN APRIL.

From Abel M. Ayer, for sidewalk assess- ment, Marshall street.....	72 21	
Abel E. Conant, for sidewalk assess- ment, Westford street.....	88 76	
T. D. Berry, for sidewalk assess- ment, Wilder street.....	43 25	
John F. Manahan, for sidewalk assessment, Grove street.....	40 64	
Rose Flynn, for sidewalk assess- ment, Cedar street.....	7 92	
John Kennan, for sidewalk assess- ment, Cedar street.....	14 07	
Francis Glancy, for sidewalk assessment, Cedar street.....	12 42	
	<hr/>	4,097 24

IN MAY.

From Appropriation for Schools, for la- bor, etc.....	\$15 12	
Appropriation for School-Houses, for labor, etc.....	12 87	
Appropriation for Paupers, for labor, etc.....	200 75	
Appropriation for Police, for labor, Appropriation for Fire Depart- ment, for labor, etc.....	3 75	
Appropriation for Sewers and Drains, for labor, etc.....	25 30	
Appropriation for Commons, for labor, etc.....	135 43	
Appropriation for Commons, for labor, etc.....	194 80	
Appropriation for Lighting, for labor, and keeping horses.....	64 00	
Appropriation for Public Build- ings, for labor, etc.....	4 75	
Appropriation for Health, for use of teams, etc.....	121 00	
Appropriation for Water Works, for labor, and keeping horse...	31 90	
Reserved Fund, for labor, etc....	9 57	
F. A. Sawyer, for manure.....	2 50	
C. H. Stickney, for manure.....	8 00	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$829 74	\$81,831 74

Amounts brought forward, \$829 74 \$81,831 74

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC. :

IN MAY.

From Edmund Elliott, for labor.	1 62	
N. T. Staples & Sons, for paving,	2 25	
Michael Maguire, for flagging. . . .	6 63	
Simon B. Harris, for rent.	15 00	
John Gannon, for sidewalk assess- ment, Cedar street.	11 44	
Amos M. Kyle, for sidewalk as- sessment, Pleasant street.	141 96	
Fred. C. Miller, for sidewalk assess- ment, Grove street.	57 44	
Heirs of Phaniel Flanders, for sidewalk assessment, Gorham street.	16 49	
W. C. James, for sidewalk assess- ment, Gates street.	58 00	
Heirs of Andrew Baxter, for side- walk assessment, Cedar street. .	7 84	
E. A. & A. T. Smith, for sidewalk assessment, Wilder street.	193 67	
E. A. & A. T. Smith, for side- walk assessment, Marshall street.	24 94	
Gilbert Rose, for sidewalk assess- ment, Grove street.	63 78	
George S. Keeler, for sidewalk assessment, Cedar street.	29 34	
Christopher Mooney, for sidewalk assessment, Cedar street.	13 93	
Heirs of Isaac Storms, for sidewalk assessment, Little street.	69 44	
A. C. Wheelock, for sidewalk as- sessment, Chapel street.	33 50	
A. C. Wheelock, for sidewalk as- sessment, Abbott street.	44 08	
	<hr/>	1,621 09

IN JUNE.

From Appropriation for School Houses, for labor, etc.	\$ 9 50	
Appropriation for Paupers, for labor, etc.	141 86	
	<hr/>	
<i>Amounts carried forward,</i>	\$151 36	\$83,452 83

<i>Amounts brought forward</i>	\$151 36	\$83,452 83
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Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.

IN JUNE.

From Appropriation for Police, for sun- dries.....	15 62
Appropriation for Fire Depart- ment, for labor, etc.....	26 20
Appropriation for Sewers and Drains, for labor.....	151 37
Appropriation for Commons, for labor, etc.....	13 10
Appropriation for Lighting, for keeping horse, etc.....	30 00
Appropriation for Health, for use of teams	122 50
Appropriation for Water Works, for sundries.....	54 12
Edward T. Rowell, for flagging and street scrapings.....	18 50
Simon B. Harris, for rent.....	15 00
Patriek Kelloy, for fuel.....	6 00
John Hollohan, for fuel.....	10 75
John Dinnen, for fuel.....	6 00
Joseph Columb, for fuel.....	3 00
John Leary, for fuel.....	3 00
James R. Miller, for sidewalk as- sessment, Wilder street.....	35 52
Alanson Folsom, for sidewalk as- sessment, Cedar street.....	15 04
William H. Kimball, for sidewalk assessment, Grove street.....	32 58

709 66

IN JULY.

From Appropriation for Schools, for sundries.....	\$113 75
Appropriation for Paupers, for la- bor, etc.....	203 95
Appropriation for Fire Depart- ment, for labor, etc.....	28 30
Appropriation for Sewers and Drains, for labor, etc.....	144 75
Appropriation for Lighting, for keeping horse, etc.....	26 75

<i>Amounts carried forward</i>	\$517 50	\$84,162 49
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<i>Amounts brought forward</i>	\$517 50	\$84,162 49
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Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC. :

IN JULY.

From Appropriation for Commons, for sundries.....	6 50	
Appropriation for Health, for use of team, etc.....	122 00	
Appropriation for Water Works, for keeping horse, etc.....	46 10	
Reserved Fund, for sundries.....	25 25	
S. B. Harris, for rent.....	15 00	
L. R. J. & D. H. Varnum, for stone,	441 70	
	<hr/>	1,174 05

IN AUGUST.

From Appropriation for Schools, for labor, etc.....	\$2 25	
Appropriation for Paupers, for labor, etc.....	134 65	
Appropriation for Fire Depart- ment, for sundries.....	34 40	
Appropriation for Sewers and Drains, for labor, etc.....	177 07	
Appropriation for Commons, for sundries.....	6 50	
Appropriation for Lighting, for keeping horse, etc.....	21 45	
Appropriation for Public Buildings, for labor, etc.....	10 00	
Appropriation for Health, for use of teams, etc.....	105 50	
Appropriation for Water Works, for keeping horse, labor, etc...	52 55	
Simon B. Harris, for rent.....	15 00	
Francis Jewett, for fuel.....	1 50	
Boston & Lowell Railroad, for labor	99 88	
W. H. Ward, for labor.....	10 00	
S. G. Wyman, for labor.....	19 32	
B. G. Brown, for flagging.....	12 41	
Fanny Fisher, for sidewalk assess- ment, Wilder street.....	29 95	
	<hr/>	
<i>Amounts carried forward</i> ,	\$732 43	\$85,336 54

<i>Amounts brought forward</i>	\$732 43	\$85,336 54
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Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN AUGUST.

From J. M. G. Parker, for sidewalk as- essment, Myrtle street.....	57 10	
Mary D. Sullivan, for sidewalk assessment, Cross street.....	23 27	
	<hr/>	812 80

IN SEPTEMBER.

From Appropriation for Paupers, for la- bor, etc.....	\$117 50	
Appropriation for Fire Depart- ment, for labor, etc.....	21 25	
Appropriation for Sewers and Drains, for labor, etc.....	425 02	
Appropriation for Commons, for sundries.....	12 25	
Appropriation for Lighting, for keeping horse, etc.....	26 23	
Appropriation for Public Buildings, for sundries.....	1 25	
Appropriation for Health, for use of teams, etc.....	78 00	
Appropriation for Water Works, for sundries.....	20 25	
Reserved Fund, for sundries.....	9 06	
Simon B. Harris, for rent.....	15 00	
County of Middlesex, for labor re- pairing sidewalk.....	74 48	
William H. Wood, for edgestone..	4 20	
Charles Runels, for flagging.....	10 50	
Staples Bros., for labor.....	4 82	
Charles F. Varnum, for labor....	38 47	
C. B. Coburn & Co., for coal oil barrel.....	1 50	
Mary Hogan, for sidewalk assess- ment, Gorham street.....	22 95	
Heirs of Thomas Rogers, for side- walk assessment, Cedar street..	13 82	
James Gannon, for sidewalk as- essment, Cedar street.....	10 80	
John F. Howard, for sidewalk assessment, Wilder street.....	51 90	
	<hr/>	
<i>Amounts carried forward</i>	\$959 25	\$86,149 34

Amounts brought forward, \$959 25 \$86,149 34

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC. :

IN SEPTEMBER.

From Emery W. Lovejoy, for sidewalk assessment, Wilder street.....	40 52	
Bridget Gildee, for sidewalk assessment, Cedar street.....	18 36	
E. L. Cardell, for sidewalk assessment, Wilder street.....	23 70	
Caroline C. Allen, for sidewalk assessment, Cushing street.....	24 37	
George H. Ames, for sidewalk assessment, Grove street.....	131 49	
A. C. Wheelock, for sidewalk assessment, Cedar street.....	40 46	
Patrick Hollahan, for sidewalk assessment, Cedar street.....	14 58	
George W. Doty, for sidewalk assessment, Westford street.....	34 49	
Frank L. Morrill, for sidewalk assessment, Grove street.....	91 95	
Robert G. Bartlett, for sidewalk assessment, Wilder street.....	50 95	
Robert G. Bartlett, for sidewalk assessment, Westford street....	131 72	
	<hr/>	1,561 84

IN OCTOBER.

From Appropriation for Schools, for labor, etc.....	\$ 92 74	
Appropriation for School Houses, for sundries.....	3 00	
Appropriation for Paupers, for labor, etc.....	142 35	
Appropriation for Fire Department, for labor, etc.....	24 55	
Appropriation for Sewers, for labor, etc.....	172 65	
Appropriation for Lighting, for keeping horse, etc.....	22 99	
Appropriation for Public Buildings, for labor, etc.....	5 00	
Appropriation for Commons, for sundries	4 75	
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<i>Amounts carried forward,.....</i>	\$468 03	\$87,711 18

<i>Amounts brought forward</i>	\$468 03	\$87,711 18
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Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN OCTOBER.

From Appropriation for Health, for use of teams.....	78 00	
Appropriation for Water Works, for keeping horse, etc.....	19 50	
Reserved Fund, for labor, etc....	4 00	
S. B. Harris, for rent.....	15 00	
L. C. Hall, for edgestone and street scrapings.....	87 00	
N. Peabody, for manure.....	66 50	
Theodore Adams, for edgestone..	17 55	
R. Simpson, for manure.....	1 50	
Sarah Gillogly, for sidewalk as- sessment, Cedar street.....	21 88	
George W. Pearson, for sidewalk assessment, Wilder street.....	40 60	
Mark Manahan, for sidewalk as- sessment, Eighth street.....	76 50	
Heirs of Terrence Hanavor, for sidewalk assessment, Gorham street.....	30 60	
Heirs of Terrence Hanavor, for sidewalk assessment, Gorham street.....	30 25	
Dora Pike, for sidewalk assessment, Beech street.....	19 32	
Albion W. Bartelle, for sidewalk assessment, Spalding street....	60 83	
Heirs of Ezra Sheldon, for sidewalk assessment, Howard street.....	114 02	
Frederick J. Garland, for sidewalk assessment, Westford street...	37 72	
Frederick J. Garland, for sidewalk assessment, Wilder street.....	45 61	
Estate of G. S. Butters, for side- walk assessment, Green street..	39 16	
F. H. Butler and F. H. Chandler, for sidewalk assessment, Gorham street.....	30 40	
John Fahey, for sidewalk assess- ment, Central street.....	20 63	

<i>Amounts carried forward</i>	\$1,324 60	\$87,711 18
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Amounts brought forward..... \$1,324 60 \$87,711 18

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC. :

IN OCTOBER.

From James Dallagher, for sidewalk as- essment, Bartlett street.....	39 00	
C. E. Bohonon, for sidewalk as- essment, Beech street.....	25 90	
Mrs. W. H. Clemence, for sidewalk assessment, Green street.....	13 53	
L. W. Faulkner & Son, for side- walk assessment, Faulkner street	222 07	
		1,625 10

IN NOVEMBER.

From Appropriation for Schools, for labor, etc.....	\$ 50 05	
Appropriation for School-Houses, for labor, etc.....	14 30	
Appropriation for Paupers, for la- bor, etc.....	165 90	
Appropriation for Police, for labor, etc.	14 37	
Appropriation for Fire Department, for sundries.....	52 23	
Appropriation for Sewers and Drains, for labor.....	235 74	
Appropriation for Commons, for labor	6 50	
Appropriation for Lighting, for keeping horse, etc.....	29 61	
Appropriation for Public Build- ings, for labor.....	3 76	
Appropriation for Health, for use of teams.....	78 00	
Appropriation for Water Works, keeping horse, etc.....	23 30	
Reserved Fund, for labor, etc....	32 99	
George N. Leathers, for cinders and labor	3 62	
Prescott Mills, for labor.....	15 76	
E. S. Fox, for manure.....	5 00	
Nashua & Lowell Railroad Co., for paving.....	3 62	
Elbridge Livingston, for edgestone and labor.....	50 59	
<i>Amounts carried forward</i>	\$785 34	\$89,336 28

Amounts brought forward..... \$785 34 \$89,336 28

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC.:

IN NOVEMBER.

From John C. Woodward, for stone, fuel and manure.....	88 33	
D. S. Hoyt, for old flagging.....	4 25	
W. C. Stevenson, for edgestone..	123 72	
C. B. Coburn & Co., for barrel..	1 50	
N. T. Staples & Sons, for labor..	5 74	
Smith & Sweatt, for labor	1 50	
Frederick Frye, for labor and ma- terial.....	9 05	
Appropriation for Water Works, for sidewalk assessment, West Sixth street.....	118 39	
Mrs. Paul R. George, for sidewalk assessment, Howard street....	59 08	
J. Barnard Brown, for sidewalk assessment, Hampshire street..	55 90	
St. John's Church, for sidewalk assessment, Court street.....	130 11	
St. John's Church, for sidewalk assessment, Linden street.....	82 15	
Joseph Tilton, for sidewalk assess- ment, Central street.....	63 83	
Thomas Maxwell, for sidewalk as- sessment, Bartlett street.....	36 11	
Thomas G. Pressey, for sidewalk assessment, Central street.....	75 74	
	<hr/>	1,640 74

IN DECEMBER.

From Appropriation for Schools, for labor, etc.....	\$305 21	
Appropriation for School-Houses, for labor.....	120 50	
Appropriation for Paupers, for labor, etc.	185 75	
Appropriation for Fire Department, for sundries.	68 70	
Appropriation for Sewers and Drains, for labor, etc.....	1,385 50	
Appropriation for Police, for la- bor, etc.....	3 80	
	<hr/>	
<i>Amounts carried forward</i> ,.....	\$2,069 46	\$90,977 02

Amounts brought forward, \$2,069 46 \$90,977 02

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC. :

IN DECEMBER.

Appropriation for Commons, for labor	17 49
Appropriation for Lighting, for keeping horse, etc.....	47 85
Appropriation for Public Buildings, for labor, etc.....	43 75
Appropriation for City Hall Building Lot, for labor.....	1 50
Appropriation for Health, for use of teams.....	147 00
Appropriation for Water Works, for keeping horse and labor....	375 70
Reserved Fund, for labor, etc....	109 24
John C. Woodward, for labor....	13 75
William Courtney, for concrete...	19 45
Thomas Jeffries, for stone.....	7 96
A. P. Bonney, for labor and material.....	71 75
Almira Wallace, for land on Grove street	125 00
William G. Howe, for labor.....	3 18
Daniel S. Kimball, for edgestone,	23 40
Benjamin G. Brown, for edgestone,	36 90
U. S. Bunting Co., for labor and material.....	20 62
F. C. Plunkett, for sidewalk assessment, Central street.....	30 50
James McDermott, for sidewalk assessment, Gorham street....	6 95
Andrew Green, for sidewalk assessment, Central street.....	22 25
Thomas Mehan, for sidewalk assessment, Hampshire street....	18 32.
Edward Cushing, for sidewalk assessment, Howard street.....	27 74
Michael Brady, for sidewalk assessment, Green street.....	27 55
Edward T. Rowell, for sidewalk assessment, Eighth street.....	35 69
Chastina Goodspeed, for sidewalk assessment, Westford street....	40 84

Amounts carried forward..... \$3,343 84 \$90,977 02

Amounts brought forward..... \$3,343 84 \$90,977 02

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LA-
BOR, ETC. :

IN DECEMBER.

From George E. Leonard, for sidewalk assessment, Central street.....	25 52	
George F. Libbee, for sidewalk assessment, West Sixth street..	36 70	
Thomas Coleman, for sidewalk as- sessment, Central street.....	50 30	
John P. Painter, for sidewalk as- sessment, Central street.....	25 52	
Matilda S. White, for sidewalk as- sessment, Grove street.....	32 67	
John Donohoe, for sidewalk assess- ment, Central street.....	41 92	
J. C. Biggs, for sidewalk assess- ment, Howard street.....	31 16	
Benjamin Wilby, for sidewalk as- sessment, Gorham street.....	10 85	
Mrs. J. H. Ely, for sidewalk assess- ment, Bartlett street.....	45 80	
Mrs. A. E. Spalding, for sidewalk assessment, Bartlett street.....	30 60	
	<hr/>	3,674 88
		<hr/>
		\$94,651 90
Transferred from Corporation Tax Account.....		1,000 00
		<hr/>
		<u>\$95,651 90</u>

EXPENDITURES.

Paid SUPERINTENDENT OF STREETS
AND CIVIL ENGINEER :

To John C. Woodward, Superintendent of Streets, (salary).....	\$1,600 00
George E. Evans, Civil Engineer, (salary)	2,100 00
	<hr/>
<i>Amount carried forward</i> ,.....	\$3,700 00

Amount brought forward,..... \$3,700 00

Paid SUNDRY PERSONS FOR LA-
BOR, AS PER MONTHLY PAY-
ROLLS :

In	January	\$3,854 66
	February	2,632 18
	March.....	3,177 48
	April	3,502 74
	May	4,027 98
	June	4,439 11
	July.....	4,434 57
	August	4,563 00
	September	4,657 66
	October.....	4,810 43
	November.....	3,448 75
	December	1,947 87

45,496 43

Paid for HAY, GRAIN, ETC. :

To	Appropriation for Paupers, for hay..	\$107 50
	Smith Adams, for hay.....	183 61
	Boston & Maine Railroad, for freight on hay.....	60 00
	J. Barrett, for hay.....	18 07
	H. A. Coburn, for hay.....	29 30
	Timothy Coburn, for hay and apples	23 17
	H. A. & S. A. Coburn, for hay....	222 46
	G. F. Collins, for hay.....	104 12
	W. O. Cummings, for hay.....	73 60
	W. P. Foye, for corn, meal and shorts	514 52
	Charles M. Holmes, for hay.....	38 48
	A. W. Howe, for carrots.....	121 00
	L. W. Jenness, for hay.....	120 95
	C. F. Keyes, for hay.....	24 26
	D. P. Keyes, for hay.....	34 50
	Wm. E. Livingston, for oats, meal and fine feed.....	994 45
	J. I. Murch, for corn, meal, shorts and straw.....	342 67
	H. E. Parker, for hay.....	68 00
	Estate of Robert Park, for hay....	92 99
	D. S. & G. F. Richardson, for hay..	130 90
	L. & L. T. Richards, for hay.....	77 71
	O. Simpson, for straw.....	11 50
	Thomas W. Simpson, for hay.....	45 03
	Stiles, Rogers & Co., for corn, shorts, meal and oats.....	414 73

Amounts carried forward,..... \$3,853 52 \$49,196 43

<i>Amounts brought forward</i>	\$3,853 52	\$49,196 43
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Paid for HAY, GRAIN, ETC.:

To A. K. Tallant, for hay.....	9 22	
T. J. Underwood, for hay.....	73 71	
S. N. Wood & Son, for oats, meal, shorts, etc.....	1,268 36	
S. Woods, for hay.....	27 04	
Wells & Richardson, for hay.....	288 71	
	<hr/>	5,520 56

Paid for FUEL, ETC.:

To A. B. Buttrick, for wood.....	\$483 30	
Sewall Bowers, for wood.....	219 75	
J. Corner, agent, for coal.....	80 50	
Wm. E. Livingston, for coal.....	103 14	
Samuel Newhall, for surveying wood,	12 25	
Nashua and Lowell Railroad, for freight on wood.....	335 84	
Boston and Lowell Railroad, for freight on coal.....	10 80	
Michael Farrell, for sawing wood...	60 25	
Henry Holland, for sawing wood...	11 25	
William Husband, for sawing wood,	41 12	
James Hickey, for sawing wood....	34 25	
Daniel O'Niel, for sawing wood....	25 50	
William Scully, for sawing wood....	14 50	
Peter Slavin, for sawing wood.....	24 12	
Joel Thurston, for sawing wood....	11 50	
	<hr/>	1,468 07

Paid for LUMBER. STONE, BRICK,
CONCRETE, ETC.:

To A. P. Bateman, for lumber.....	\$70 08	
A. L. Brooks & Co., for sawdust...	1 00	
J. C. Bachelder, for labor on lumber	59	
Davis & Sargent, for lumber and sawdust	17 49	
Howes & Burnham, for lumber....	241 67	
William Kelley & Son, for window frames.....	10 00	
A. Lake, for pulleys, rolls, handles, labor, etc.....	13 80	
M. C. Pratt & Co., for lumber and labor	85 86	
Whitney & Tibbetts, for lumber....	1,672 15	

<i>Amounts carried forward</i>	\$2,112 64	\$56,185 06
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Amounts brought forward,..... \$2,112 64 \$56,185 06

Paid for LUMBER, STONE, BRICK,
CONCRETE, ETC. :

To F. W. Bennett, for sand.....	52 00	
Hamilton Manufacturing Co., for gravel	54 83	
J. F. Manahan, for gravel.....	200 00	
Wamesit Power Co., for gravel.....	68 90	
Wm. E. Livingston, for brick.....	16 60	
E. A. & A. T. Smith, for concrete..	3,731 11	
S. B. Tallant & Co., for concrete...	1,108 50	
Robert Gardner, for breaking paving stones	2,436 84	
Noah Prescott, for stone.....	85 67	
Pigeon Hill Granite Co., for freight on paving stone in 1879.....	165 50	
David Reed, for stone.....	164 69	
Smith & Sweatt, for teaming paving stone	479 44	
Smith & Sweatt, for paving stone...	14,588 17	
Smith & Sweatt, for edgestone and flagging	4,917 97	
Sweatt & Davis, for edgestone, etc..	88 50	
Boston & Lowell Railroad, for switching cars.....	89 50	
		30,360 86

Paid for IRON, STEEL, CARRIAGES,
HARNESSES, TOOLS, ETC. :

To American Bolt Co., for iron and labor	\$ 92 84	
Sager Ashworth & Co., for files, rasps and labor.....	52 82	
Cole & Nichols, for sled shoes.....	3 57	
Frank P. Hill & Co., for iron, steel, chains, bolts, washers, etc.....	763 68	
Pevey Bros., for castings.....	23 79	
Charles E. Adams, for hardware, tools, etc.....	422 61	
H. A. Fielding, for hardware and tools	162 25	
A. Lake, for mauls, handles and rolls,	5 90	
Horace B. Shattuck, for hardware and tools.....	26 36	
Frederick Taylor, for hardware and tools	61 38	
<i>Amounts carried forward</i>	\$1,615 20	\$86,545 92

Amounts brought forward, \$1,615 20 \$86,545 92

**Paid for IRON, STEEL, CARRIAGES,
HARNESSES, TOOLS, ETC. :**

Cook, Rymes & Co., for iron rammer and grate.....	13 80
Farrel Foundry and Machine Co., for stone crusher and screen.....	862 50
S. L. Butman, for harnesses, brushes, surcingle, and repairing harnesses,	446 73
J. A. Brabrook, for harnesses, repair- ing harnesses, blankets, etc.....	124 31
T. M. Bolton & Co., for repairing harnesses	168 65
Sawyer & Taylor, for repairing har- nesses, carriages, etc.....	153 20
Archibald Wheel Co., for hubs, bands, etc.....	1 50
Concord Carriage Co., for four-seated passenger wagon.....	300 00
Henry J. Draper, for painting and repairing wagon.....	34 00
Hill Brothers, for repairing carriages, spokes, hubs, etc.....	21 07
Estate of Robert Park. for street scraper	8 00
C. B. Relyea, for shafts, hubs, spokes and rims.....	54 04
C. A. Ross & Co., for repairing car- riages	4 50
William Robinson, for repairing cart and street sweeper.....	3 75
Henry N. Stone, for repairing street sweeper and brushes.....	53 35
Old Colony Railroad Co., for freight on stone crusher.....	49 60
Penniman & Co's Express, for trans- portation.....	4 15

3,918 35

Paid for LAND, ETC. :

To Mollahan Brothers, for 165 feet land taken to widen Gorham street....	\$24 75
Heirs of Ezra Sheldon, for damages caused by laying sidewalk on How- ard street.....	150 00

174 75

Amount carried forward,

\$90,639 02

Amount brought forward, \$90,639 02

Paid for HORSES, AND USE OF
HORSES:

To Appropriation for Lighting, for one horse	\$200 00	
George S. Butters, for two horses...	450 00	
Estate of George S. Butters, for difference in horses and use of horses,	117 00	
Charles Clapp, for one horse.....	265 00	
E. J. Noyes, for three horses.....	690 00	
J. L. Noyes, for use of horse.....	5 00	
George E. Scripture, for use of horse, and medical attendance in 1879...	150 00	
	<hr/>	1,877 00

Paid for SUNDRIES:

To Appropriation for Fire Department, for use of team.....	\$1 50	
Appropriation for Public Buildings, for labor.....	1 12	
Appropriation for Water Works, for use of water.....	109 16	
Appropriation for Water Works, for pipe.....	9 10	
H. R. Barker, for pipe, couplings, hooks, labor, etc.....	20 67	
T. Costello & Co., for repairing stove,	3 50	
Albert Hallowell, for repairing steel points, etc.....	75	
C. T. Haskell, for filing saws	11 36	
J. H. Haskell, for filing saws	34 04	
Wm. McLarney, for pail and dipper,	1 15	
S. G. Mack & Co., for pipe, dippers, pail and labor.....	9 90	
A. Nourbourn, for turning mandrill,	5 00	
Rice & Co., for wire cloth.....	3 50	
H. H. Wilder & Co., for coal hod..	1 50	
Josiah T. Corner, for painting signs,	102 50	
Joseph Tyrrell, for whitewashing Central bridge.....	65 00	
Stephen P. Sargent, for privilege of drawing gravel across his land....	11 21	
Abbott & Dickinson, for cotton cloth,	1 00	
J. P. Folsom & Co., for flannel, cotton cloth and crash.....	14 94	
J. W. Bennett, for tarred paper....	10 85	
	<hr/>	
<i>Amounts carried forward</i> ,.....	\$417 75	\$92,516 02

<i>Amounts brought forward</i> ,.....	\$417 75	\$92,516 02
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Paid for SUNDRIES :

To Buttrick & Co., for oil, wicks, mustard, brooms and soap.....	9 31
C. B. Coburn & Co., for oil, brushes, hose, rope, pails, twine and baskets,	113 56
F. H. Chandler, for oil, oatmeal and salt.....	35 22
Louis Detzel & Bro., for horse brushes,	32 00
Frazer Lubricating Company, for axle grease	11 22
French & Puffer, for tumblers, pitcher and baskets.....	4 00
Josiah Gates & Sons, for belting and leather	65 16
C. R. Kimball, for shades.....	60
Wm. E. Livingston, for lime.....	5 25
Miller Bros., for salt, oatmeal and oil	7 42
Nichols & Fletcher, for powder, fuse, dualin, exploders, oil and oatmeal,	181 22
A. P. Noyes, for harness soap.....	4 50
R. K. Runals, for liniment.....	12 65
George Runals, for rope and chain..	15 86
J. P. Scollay & Co., for polishing oil,	5 00
Warren Shed, for broom material...	10 85
Stickney & Spofford, for oatmeal...	36
J. J. Judkins, agent, for glass.....	75
J. R. Hayes, for medicine for horses,	29 75
Robert Wood, for medical treatment of horses.....	140 00
G. L. Huntoon, for use of carriages,	14 50
J. M. Hodge, for use of cart.....	50
George E. Evans, for cash paid for postage, postal cards, paste, repairing tape, repairing level, travelling expenses, etc.....	11 53
John C. Woodward, for cash paid expenses of committee.....	65 01
Boston Daily Advertiser, for advertising.....	13 00
Brown & Gove, for printing.....	9 00
Campbell & Hanscom, for printing and advertising.....	11 75
Huse, Goodwin & Co., for printing..	3 00
C. L. Knapp & Son, for advertising,	11 25

<i>Amounts carried forward</i> ,.....	\$1,241 97	\$92,516 02
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Amounts brought forward..... \$1,241 97 \$92,516 02

Paid for SUNDRIES :

To Marden & Rowell, for advertising..	7 75	
Stone, Bacheller & Livingston, for advertising.....	9 25	
Bacheller, Dumas & Co., for blank book.....	4 00	
E. Burgess, for envelopes.....	1 50	
F. P. Coggeshall, for blank book, sta- tionery and tracing cloth.....	18 50	
J. Merrill & Son, for rubber bands, stationery, blank books and ink..	5 15	
D. P. Small, for "Horse Encyclo- pedia".....	3 75	
A. Whitney, for blank book, pens, pencils, etc.....	6 32	
Lowell Gas Light Co., for gas.....	122 11	
Bernard McNulty, for labor.....	1 25	
Patrick Mahan, for labor cleaning harnesses.....	15 00	
Michael Maguire, for washing for stable.....	6 00	
Lovejoy & Co.'s Express, for trans- portation.....	40	
Penniman & Co.'s Express, for trans- portation.....	50	
		<hr/>
		\$1,443 45
*Whole expenditure for the year.....		\$93,959 47
Balance undrawn January 1, 1881.....		1,692 43
		<hr/>
		\$95,651 90
		<hr/>

*From this deduct :

Amount received for sidewalks, fuel, labor, material, etc.....	\$24,540 23	
Amount paid for land taken to widen streets, etc.....	174 75	
		<hr/>
		\$24,714 98
Making the net expenditure for ordinary street purposes.....		<hr/>
		\$69,244 49
		<hr/>

RESERVED FUND.

Balance undrawn January 1, 1880.....	\$1,572 55	
	<hr/>	\$1,572 55

RECEIPTS.

Received into the TREASURY :

From Sundry persons, for use of Huntington Hall.....	\$1,939 00	
Sundry persons, for use of Jackson Hall.....	36 00	
Commonwealth, for rent of armories	800 00	
County of Middlesex, for rent of Police Court-room.....	750 00	
C. P. Talbot & Co., for rent of store and cellar in Market House Building	1,200 00	
Carleton & Hovey, for rent of store in City Hall Building.....	1,200 00	
William Bascom, for rent of store in City Hall Building.....	300 00	
Percia L. Dyar, for rent of store in City Hall Building.....	933 33	
Helen J. Bartlett, for rent of store in City Hall Building.....	750 00	
Mrs. S. A. Proper, for rent of store in City Hall Building.....	729 30	
John H. McAlvin, City Treasurer and Collector of Taxes, for liquor licenses.....	41,950 50	
Samuel A. McPhetres, City Clerk, for marriage certificates.....	364 00	
	<hr/>	
<i>Amounts carried forward.....</i>	<i>\$50,952 13</i>	<i>\$1,572 55</i>

Amounts brought forward, \$50,952 13 \$1,572 55

Received into the TREASURY :

From Samuel A. McPhetres, City Clerk, for recording mortgages, assign- ments, etc.....	666 20
Samuel A. McPhetres, City Clerk, for recording dog licenses.....	173 40
Samuel A. McPhetres, City Clerk, for recording liquor licenses....	288 00
Samuel A. McPhetres, City Clerk, for sundry licenses.....	875 00
A. P. Lake, Superintendent of City Scales, for fees for weighing...	150 61
A. P. Lake, Measurer of Wood and Bark, for fees for measuring...	48 10
Samuel M. Patterson, Superinten- dent of City Scales, for fees for weighing.....	562 38
Samuel M. Patterson, Measurer of Wood and Bark, for fees for measuring.....	322 56
James Murphy, Sealer of Weights and Measures, for fees for seal- ing weights and measures.....	265 83
James W. B. Shaw, Milk Inspec- tor, for licenses and registry...	153 00
Robert W. Carberry, for peddlers license.....	25 00
Sundry persons, for costs of pre- paring their estates for sale for non-payment of sewer and side- walk assessments, as follows :	
James Carr.....	1 50
Charles H. Richardson.....	1 50
A. C. Wheelock.....	12 00
John H. McAlvin, City Treasurer and Collector of Taxes, for cost of preparing sundry estates for sale for non-payment of taxes of 1879	141 55
Sundry persons, it being the amount over and above the taxes, costs and interest, on estates sold for non-payment of taxes, viz :	
George S. Cheney, on estate of Margaret Barrett.....	74

Amounts carried forward, \$54,639 50 \$1,572 55

<i>Amounts brought forward.....</i>	\$54,639 50	\$1,572 55
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Received into the TREASURY :

From George S. Cheney, on estate of Catherine McKurney.....	31 20
George S. Cheney, on estate of Moses B. Ford.....	52 62
George S. Cheney, on estate of G. S. Cheney and Smith.....	3 35
Alden B. Buttrick, on estate of Mrs. Patrick Courtney.....	44 72
Wason, Peirce & Co., on estate of Thomas Lyons.....	26 63
James W. Bennett, on estate of Joseph Field.....	91 75
James W. Bennett, on estate of Joseph Field.....	45 86
James W. Bennett, on estate of Henry H. Moody.....	15 55
Mrs. Louise N. Shepard, on estate of Michael Quinn.....	29 12
Mrs. Louise N. Shepard, on estate of Murty Quinlan.....	32 94
David Fitzgerald, on estate of Martin Redmond.....	57 82
John Cowley, on estate of Henry H. Moody.....	16 19
Patrick Mahan, on estate of Samuel H. Randall.....	43 52
I. Sumner Richardson, on estate of Charlotte Coburn.....	24 62
J. G. Peabody, on estate of Mrs. Jane Green.....	32 00
John C. Woodward, on estate of John H. McDonough.....	31 47
Arthur E. Bowers, on estate of George Custy.....	40 60
Horace B. Shattuck, on estate of William Gillian.....	47 14
Horace B. Shattuck, on estate of Heirs of John Welch.....	60 45
Horace B. Shattuck, on estate of John Murphy.....	66 45
Edwin Lamson, on estate of Rufus Spalding.....	303 57
L. R. J. Varnum, on estate of James Critchett.....	17 38

<i>Amounts carried forward.....</i>	\$55,754 45	\$1,572 55
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Amounts brought forward \$55,754 45 \$1,572 55

Received into the TREASURY :

From L. R. J. Varnum, on estate of Patrick O'Day	53 52	
Emery W. Lovejoy, for cost of advertising his estate for non-payment of sewer assessment . . .	1 00	
F. T. Greenhalge, for amount received of T. E. Halleck, for damages and extra expenses at Huntington Hall	43 00	
H. R. Barker, for amount of prize, not taken at Fourth of July celebration	10 00	
	<hr/>	55,861 97
		<hr/>
		<u><u>857,134 52</u></u>

EXPENDITURES.

Paid MEASURER OF WOOD AND BARK and SUPERINTENDENT OF CITY SCALES :

To Samuel M. Patterson, measurer, salary	\$600 00	
Samuel M. Patterson, superintendent, salary	100 00	
	<hr/>	700 00

Paid for SERVICES OF WARD OFFICERS :

WARD ONE.

To William Hart, Warden	\$15 00	
Timothy H. Brennan, Clerk	5 00	
Dennis A. Crowley, Clerk	10 00	
Timothy H. Brennan, Inspector	6 00	
	<hr/>	
<i>Amounts carried forward</i> ,	\$36 00	\$700 00

RESERVED FUND.

71

Amounts brought forward..... \$36 00 \$700 00

Paid for SERVICES OF WARD OFFICERS:

WARD ONE.

To George B. Goodale, Inspector.....	3 00	
Jeremiah J. Hayes, Inspector.....	3 00	
Samuel Chapin, Inspector.....	6 00	
George A. Scribner, Inspector.....	9 00	
Thomas J. Duffy, Inspector.....	6 00	
James D. Sullivan, Inspector.....	9 00	
John A. Walsh, Inspector.....	6 00	
John B. Smith, Inspector.....	3 00	
		81 00

WARD TWO.

To Robert L. Read, Warden.....	\$10 00	
Charles A. Parker, Warden.....	5 00	
William F. Courtney, Clerk.....	10 00	
Abner L. Kittredge, Clerk.....	5 00	
Orrin C. Carleton, Inspector.....	6 00	
John F. Callahan, Inspector.....	3 00	
Henry J. McAlvin, Inspector.....	3 00	
J. F. Puffer, Jr., Inspector.....	6 00	
George A. Saunders, Inspector.....	6 00	
Terrence F. Cassidy, Inspector.....	6 00	
George W. Brothers, Inspector.....	3 00	
Frank B. Peabody, Inspector.....	6 00	
David M. Lackie, Inspector.....	3 00	
Charles A. Parker, Inspector.....	6 00	
		78 00

WARD THREE.

To James Howard, Jr., Warden.....	\$15 00	
Thomas F. Kelley, Clerk.....	10 00	
Charles J. Heeren, Clerk.....	5 00	
John H. Cassidy, Inspector.....	9 00	
Harry Dunlap, Inspector.....	6 00	
Horace Ela, Inspector.....	6 00	
Oscar J. Gilbert, Inspector.....	6 00	
Joseph Jennings, Inspector.....	3 00	
John H. Keenan, Inspector.....	6 00	
Michael F. Maguire, Inspector.....	9 00	
Thomas F. Maguire, Inspector.....	3 00	
John J. Donohue, Inspector.....	6 00	
		84 00

Amount carried forward,..... \$943 00

Amount brought forward,.....

\$943 00

Paid for SERVICES OF WARD OFFICERS:

WARD FOUR.

To	David Lane, Warden.....	\$ 5 00
	A. C. Russell, Warden.....	10 00
	Charles E. Carter, Clerk.....	15 00
	W. H. Blaney, Inspector.....	9 00
	W. A. Dickinson, Inspector.....	9 00
	I. K. Goodale, Inspector.....	9 00
	Charles F. Manahan, Inspector.....	9 00
	Charles E. Howe, Inspector.....	6 00
	Holland Streeter, Inspector.....	6 00

78 00

WARD FIVE.

To	Ward S. Dudley, Warden.....	\$ 5 00
	George W. Batchelder, Warden....	10 00
	George E. Worthen, Clerk.....	15 00
	George L. Fowler, Inspector.....	6 00
	Clarence G. Coburn, Inspector.....	6 00
	Samuel Hosmer, Inspector.....	3 00
	James H. Carmichael, Inspector....	6 00
	E. B. Peirce, Inspector.....	3 00
	Morton N. Peabody, Inspector.....	6 00
	R. J. Thomas, Inspector.....	3 00
	Albert W. Burnham, Inspector.....	3 00
	H. A. Webster, Inspector.....	9 00
	Frank T. Whitney, Inspector.	3 00
	John H. Lynch, Inspector.....	6 00

84 00

WARD SIX.

To	Henry Emery, Warden.....	\$ 5 00
	Andrew J. Hough, Warden.....	10 00
	Edward A. Coffin, Clerk.....	15 00
	James Baxter, Inspector.....	6 00
	John Doyle, Inspector.....	9 00
	Thomas J. Day, Inspector.....	3 00
	Robert J. Shepard, Inspector.....	9 00
	Edward W. Thompson, Inspector...	3 00
	R. H. Tyler, Inspector.....	6 00
	Joseph B. Varnum, Inspector.....	3 00
	Charles L. Emerson, Inspector.....	6 00
	A. W. Harris, Inspector.....	6 00

81 00

Amount carried forward,.....

\$1,186 00

RESERVED FUND.

73

Amount brought forward, \$1,186 00

MEMORIAL DAY.

To Post 42, Grand Army of the Republic, per resolution of the City Council	\$300 00	
	<hr/>	300 00

Paid for DAMAGES, COSTS, ETC.:

To Sarah J. Wilson, on execution.....	\$1,501 50	
Catherine McGuane, on execution..	1,150 25	
A. P. Quimby, on execution.....	310 87	
Mrs. Richard P. Mercer, on execution	565 56	
Nancy Manning, for damage to property on Middlesex street.....	9 49	
James C. Abbott, for cash paid George W. Adams, for damage to his horse, carriage and harness,	25 00	
James C. Abbott, for cash paid costs in case of Commonwealth vs. City,	9 53	
James C. Abbott, for cash paid N. B. Edwards, for damage to sleigh and harness.....	8 25	
Percia L. Dyar, for damage to goods in store by water.....	3 25	
John F. McCaffrey, for cash paid witnesses in sundry cases.....	48 95	
Daniel Walker, for cash paid witnesses, etc., in sundry cases.....	97 73	
George F. Lawton, for cash paid expenses in sundry cases.....	21 03	
Leonard Huntress, for expert testimony in sundry cases.....	75 00	
George E. Pinkham, for expert testimony in cases of Ells, and Hevey vs. City.....	50 00	
Gilman Kimball, for consultation in case of Catherine McGuane.....	10 00	
H. H. Pike, for expert testimony in case of Margaret Murphy vs. City,	25 00	
Henry G. Cushing, for fees and services in suit, City vs. Muldoon...	6 64	
Charles W. Saunders, for costs and expenses in suit, Saunders vs. City,	125 00	
	<hr/>	4,043 05
<i>Amount carried forward</i> ,.....		\$5,529 05

Amount brought forward..... \$5,529 05

Paid for FUEL:

To Appropriation for Roads and Bridges, for fuel and labor.....	\$193 27	
Appropriation for Paupers, for wood and coal.....	31 84	
Wm. E. Livingston, for coal.....	1,141 41	
	<hr/>	1,366 52

**Paid for SERVICES OF CLERKS IN
SUNDRY OFFICES:**

To W. H. Gilman, for services in the City Library.....	\$ 45 00	
Stephen T. Wyman, for services in the City Library.....	40 00	
C. W. Hanson, for services as clerk for committee on state aid.....	654 00	
Henry J. McAlvin, for services in City Treasurer's office.....	324 25	
Guy Morey, for services in City Treasurer's office.....	382 25	
Belle C. Hill, for services in City Treasurer's office.....	81 75	
Frank W. Searle, for services as Assistant City Clerk.....	746 00	
Helen J. Morrill, for services in city clerk's office.....	208 50	
Belle C. Hill, for services in city clerk's office.....	36 00	
Guy Morey, for services in city clerk's office.....	17 00	
Guy Morey, for services in auditor's office	176 00	
Celia M. Chase, for services in audi- tor's office.....	7 00	
E. W. Thompson, for services in assessors' office.....	502 75	
James Howard, for services in assess- ors' office.....	112 50	
Daniel Murphy, Jr., for services in assessors' office.....	136 00	
Robert L. Read, for services in assessors' office.....	94 00	
Josiah E. Short, Jr., for services in assessors' office.....	34 00	
	<hr/>	3,597 00
<i>Amount carried forward</i> ,.....		\$10,492 57

Amount brought forward, \$10,492 57

Paid for SUNDRIES AT EDSON
CEMETERY :

To Appropriation for Roads and Bridges, for labor, stone and sand.....	\$ 11 25	
Appropriation for Water Works, for meter and extension of pipe.....	535 22	
Appropriation for Water Works, for use of water.....	24 00	
George Suttle, for labor, etc.....	398 75	
M. C. Pratt & Co., for chestnut stakes, etc.....	16 00	
H. A. Fielding, for hardware, tools, grass seed, etc.....	19 57	
H. R. Barker, for labor on pump...	3 50	
Wm. E. Livingston, for cement and lime.....	3 45	
George E. Stanley, for moving and repairing building.....	22 50	
Ira Hartwell, for labor.....	22 75	
		1,056 99

Paid for CELEBRATION OF THE
ONE HUNDRED AND FOURTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE :

To American Brass Band, for services and expenses.....	\$151 20	
Dunstable Cornet Band, for services,	105 00	
G. A. R. Drum Corps, for services..	25 00	
Lowell Cornet Band, for services....	140 00	
Nashua Cornet Band, for services..	150 00	
Union Brass Band, for services.....	100 00	
S. W. Stevens, for services, music and expenses, at exercises in Huntington Hall.....	65 70	
H. A. Rugg, for use of piano.....	17 00	
American House, for collation, etc..	126 80	
J. V. Drew, for collation.....	64 50	
Dresser House, for collation.....	54 50	
Frank E. Shaw, for collation.....	87 50	
Hyde & Co., for display of fireworks,	400 00	
N. C. Sanborn, for illustrations with stereopticon.....	25 00	
<i>Amounts carried forward</i> ,	\$1,512 20	\$11,549 56

Amounts brought forward, \$1,512 20 \$11,549 56

Paid for CELEBRATION OF THE
ONE HUNDRED AND FOURTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE:

To H. B. & H. M. Bacon, for silver ware, etc., for prizes at regatta...	93 75
Charles H. Coburn, for cash paid sundry prizes.....	379 50
D. D. Driscoll, for prize at regatta..	20 00
Patrick McInerney, for prize at regatta	50 00
Michael McCarty, for prize at regatta,	30 00
John M. Quinn, for prize at regatta..	50 00
John H. Quinn, for prize at regatta..	20 00
E. L. Williams, for prize at regatta and labor.....	40 00
H. R. Barker, for cash paid prizes at trial of speed of horses.....	50 00
O. A. Richardson, for prizes for glass ball shooting....	30 00
Lowell Mechanic Phalanx, for firing salutes.....	150 00
Middlesex North Agricultural Society, for use of Fair Ground.....	25 00
George F. Blair, for use of steamer, labor, etc.....	55 60
Geo. H. Sheldon, for use of steamer,	10 00
George L. Huntoon, for carriages..	193 00
George E. Stanley, for use of horse and carriage.....	6 00
Campbell & Hanscom, for printing and advertising.....	97 89
Huse, Goodwin & Co., for advertising	19 00
Harrington Bros., for advertising...	13 00
C. L. Knapp & Son, for printing and advertising	64 20
Charles T. Manahan, for printing...	4 00
Marden & Rowell, for printing and advertising	55 22
Stone, Bacheller & Livingston, for printing and advertising.....	55 87
W. S. Simons, for posting.....	30 00
Lowell Post Office, for stamps and cards	9 75

Amounts carried forward..... \$3,063 98 \$11,549 56

Amounts brought forward..... \$3,063 98 \$11,549 56

Paid for CELEBRATION OF THE
ONE HUNDRED AND FOURTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE:

To Horace H. Knapp, for postage stamps and services as clerk.....	29 70	
Irving S. Porter, for services as clerk,	21 00	
Frank Wood, for postage stamps, cards, envelopes, etc.....	2 22	
Lowell Gas Light Co., for gas.....	66	
H. C. Church, for blank books, etc..	95	
J. Merrill & Son, for stationery, etc.	2 45	
H. Hosford & Co., for cashmere and silk.....	45 50	
F. E. Marsh, for badges.....	9 31	
S. A. Towle, for making sashes....	7 50	
G. W. Pease, for batons.....	14 00	
E. J. Noyes, for postage, freight, labor, etc.....	5 53	
T. M. Bolton & Co., for leggins....	12 50	
Albert Wheeler & Co., for lemons, sugar, etc.....	15 88	
M. Welch, for potatoes, lemonade, etc.	6 50	
Samuel A. Coburn, for labor, etc...	3 45	
Edward Eno, for labor.....	10 00	
Edward Lambert, for use of canvas and labor.....	36 40	
Thomas Ramsey, for labor.....	92	
D. P. Knowlton, for labor with team,	10 00	
C. H. Luscomb, for labor with team,	15 00	
A. Merrill, for labor with team.....	2 50	
William Roberts, for labor with team,	15 00	
O. A. Simpson, for labor with team,	10 00	
Francis S. Smith, for labor with team	1 00	
John Watson, for labor with team..	3 00	
		3,344 95

Paid for SUNDRIES:

To Appropriation for Schools, for brooms, brushes, pails, etc.....	7 20
Appropriation for Roads and Bridges, services of Civil Engineer, labor, etc.	120 68

Amounts carried forward..... \$127 88 \$14,894 51

<i>Amounts brought forward</i> ,.....	\$127 88	\$14,894 51
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Paid for SUNDRIES :

To Appropriation for Public Buildings, for labor, etc.....	166 45
Appropriation for Water Works, for use of water.....	790 00
Appropriation for Water Works, for expense of sounding in Merrimack River.....	23 47
J. C. Abbott, for amount paid J. W. Purcell, for taxes wrongfully as- sessed.....	6 13
Louisa W. Dyar, for re-leasing to Wm. E. Livingston land bought at Collector's sale, taxed to Calvin Simons, said Livingston being the lawful owner.....	16 75
Albert A. Dyar, for deed of land taxed to Thomas S. Robinson and bought at Collector's sale, said deed being invalid the land being wrongfully taxed.....	39 85
Moses B. Favor, for amount paid by George S. Cheney over and above the taxes, costs and interest on his estate, sold for non-payment of taxes.....	52 62
William Gilliard, for amount refund- ed on sale of property for taxes..	47 14
Catherine McKearney, for amount paid by George S. Cheney over and above the taxes, costs and in- terest on her estate, sold for non- payment of taxes.....	31 20
Lucius B. Moore, for amount paid over and above the taxes, costs and interest on the estate of Fanny Hoyle, sold for non-payment of taxes.....	17
Letitia B. Park, for amount received over and above the taxes, costs and interest on the estate of Mrs. Patrick Courtney, sold for non- payment of taxes of 1879, said estate now being owned by said Park.....	44 72

<i>Amounts carried forward</i>	\$1,346 38	\$14,894 51
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<i>Amounts brought forward.....</i>	\$1,346 38	\$14,894 51
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Paid for SUNDRIES :

To Rufus H. Spaulding, for amount paid over and above the taxes, costs and interest on his estate, sold for non-payment of taxes of 1879....	303 57
Town of Dracut, for taxes of 1880..	13 88
Town of Tewksbury, for City's proportion of State and County Tax for 1879.....	61 11
James Marren, for ascertaining the number of births in Ward One in 1879.....	24 30
William W. Read, for ascertaining the number of births in Ward Two in 1879.....	17 60
David Lane, for ascertaining the number of births in Wards Three and Four in 1879.....	45 70
Michael H. McCue, for ascertaining the number of births in Ward Five in 1879.....	23 10
Samuel G. Cressey, for ascertaining the number of births in Ward Six in 1879.....	21 00
Walter F. Chapman, for services at registration of voters.....	12 50
Clarence W. Fletcher. for services at registration of voters.....	12 00
James W. Nash, for services at registration of voters.....	14 00
George H. Richardson, for reporting and transcribing evidence in case of McEvoy vs. City.....	11 80
James Marren, for services as Secretary of the Board of Assessors..	50 00
Daniel Murphy, Jr., for copying names for use in the revision of the check list.....	22 77
Robert L. Read, for copying names for use in the revision of the check list	23 88
Joseph Lapierre, for services as interpreter for assessors.....	5 00
Clerk of Court. Middlesex County, for term fees, entry, and copy of record	3 30

<i>Amounts carried forward.....</i>	<hr/> \$2,011 89	<hr/> \$14,894 51
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Amounts brought forward, \$2,011 89 \$14,894 51

Paid for SUNDRIES :

To Henry Boynton, for services as janitor of ward room, Ward Four....	36 00
H. J. Foster, for services as janitor of ward room, Ward Two.....	20 00
Andrew Maguire, for services as janitor of ward room, Ward Three....	39 00
John Quinn, for services as janitor of ward room, Ward One.....	1 00
Aaron Scadding, for services as janitor of ward room, Ward Six.....	43 00
W. M. Stevens, for services as janitor of ward room, Ward Five....	29 00
John F. Cosgrove, for services as janitor of Huntington Hall.....	915 00
Clarence W. Fletcher, for services as fireman, etc., at City Hall.....	769 50
John F. Cosgrove, for cash paid for labor, sawdust, etc.....	52 00
C. W. Hanson, for cash paid for postage, pens, travelling expenses, etc	50 65
John H. McAlvin, for cash paid for postage stamps, rent of P. O. box, recording, pens, etc.....	114 21
Samuel A. McPhetres, for cash paid for postage stamps, pens, expressing, paste, etc.....	50 36
David Chase, for cash paid for postage stamps, rent of P. O. box, ribbon, repairing stamp, pens, etc...	26 99
John H. Nichols, for cash paid for rent of P. O. box, stamps, cards, sawdust, etc.	25 53
Clarence W. Fletcher, for cash paid for postage stamps and telegrams,	2 60
F. T. Greenhalge, for travelling expenses and telegram.....	3 83
L. B. Stevens, for postage stamps..	2 99
E. H. Lord, for analysis of milk, beer and attendance at court.....	65 16
William P. Atwood, for analysis of beer.....	12 00
Lowell Mechanic Phalanx, for firing salute.....	50 00

Amounts carried forward,..... \$4,320 71 \$14,894 51

<i>Amounts brought forward</i>	\$4,320 71	\$14,894 51
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Paid for SUNDRIES :

To George S. Mowe, for labor at City Hall.....	2 50
Kate Sullivan, for cleaning at City Hall.....	142 79
James A. Manuel, for cleaning windows, etc.....	18 80
Proprietors of Locks and Canals on Merrimack River, for rent of land in rear of Market House Building, Boston & Lowell Railroad Corporation for ground rent of Huntington and Jackson Halls.....	93 75
Central Savings Bank, for rent of box in Safety Deposit Vault.....	475 00
Joseph H. Dallagher, for rent of office.....	25 00
John H. Cassidy, for cast of stone..	10 50
Henry A. Davis, for adjusting and sealing standard weights.....	3 00
Charles E. Goddard, for ringing bell,	7 50
Frank L. Morey, for ringing bell...	4 00
J. C. Brock, 7 vote registers.....	2 00
F. P. Coggeshall, for blank books, stationery, etc.....	7 00
Coughlin & Co., for blank books, stationery, etc.....	111 50
H. C. Church, for stationery, etc....	3 00
John S. Dye, for Counterfeit Detector	58 97
J. Merrill & Son, for blank books, stationery, etc.....	3 00
E. H. Nichols, for "Banker and Tradesman"	149 82
Frederick Small, for type.....	3 00
Sampson, Davenport & Co., for Boston Directory.....	1 25
Lowell Daily Courier, for two copies one year.....	5 00
Campbell & Hanscom, for two copies Morning Times, etc.....	12 00
Lowell Daily Times, for two copies for 1879.....	12 50
C. L. Knapp & Son, for two copies Daily Citizen one year and printing	12 00
	13 00

<i>Amounts carried forward</i> ,.....	<hr/> \$5,497 59	<hr/> \$14,894 51
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Amounts brought forward, \$5,497 59 \$14,894 51

Paid for SUNDRIES :

To Brown & Gove, for postal cards and printing	5 75
Marden & Rowell, for printing.....	2 50
Stone, Bacheller & Livingston, for two copies Morning Mail one year, and printing.....	14 50
Bacheller, Dumas & Co., for blank books, printing, binding, etc.....	424 19
C. B. Coburn & Co., for twine, dusters, waste, oil, pails, etc.....	18 33
Carleton & Hovey, for lactometers, matches, soap, sponge, copperas, etc.	9 85
Charles Gould & Co., for soap.....	12 00
A. Gillard & Co., for soap.....	6 00
Gillard & Whipple, for soap.....	8 00
Jonathan Kendall, for oil.....	9 70
Nichols & Fletcher, for brooms, matches and tub.....	7 25
H. M. Rayner, for dishes for inspecting milk.....	8 50
H. J. & E. B. Adams, for desk chairs, marble slab and carpeting, Adams & Co., for matting.....	50 98
Offutt & Whittaker, for oil cloth, zinc and labor.....	19 69
H. B. & H. M. Bacon, for badge...	6 25
Robert A. Soderberry, for gilt frame,	1 50
J. A. Brabrook, for repairing cushion,	18 00
H. B. Shattuck, for hardware.....	2 00
Frederick Taylor, for hardware.....	2 33
Sargent, Greenleaf & Co., for cleaning and adjusting lock.....	8 48
H. R. Barker, for shades, hose, coupling, globes, labor, pipe and fittings,	8 00
J. E. Buerk, for key.....	50 87
A. L. Bogart, for amalgamating and repairing batteries.....	40
Richard Dobbins, for inspecting boilers, castings, labor, etc.....	37 25
John Gilchrist, for pipe, couplings, trap and labor.....	14 38
T. R. Garity, for soil pipe, sleeve and labor	13 74
	7 30

Amounts carried forward, \$6,265 33 \$14,894 51

Amounts brought forward..... \$6,265 33 \$14,894 51

Paid for SUNDRIES :

To F. P. Hill & Co., for steel and target,	32 36
S. G. Mack & Co., for tin cans, labor, etc.....	5 50
M. O'Flahaven & Co., for pipe, solder and labor.....	28 30
Michael O'Brien, for bell and mount- ings.....	700 00
Jerry Ryan, for labor.....	1 00
N. J. Wier & Co., for stove, pipe and labor.....	19 24
H. H. Wilder & Co., for tin boxes, trunk, cash boxes, water jars and labor.....	58 25
A. Lake, for pulley.....	1 50
R. S. Clifford, for repairing steam indicator, clock, etc.....	20 80
George Thatcher, for repairing clock, Alfred Gilman & Son, for repairing flags	1 00 15 00
A. L. Kittredge, for lettering boxes, duster, etc.....	10 31
F. M. Merrill, for mason work and material.....	8 57
Otis Allen & Co., for sawdust.....	45
A. L. Brooks & Co., for lumber....	3 04
Davis & Sargent, for sawdust.....	5 00
M. C. Pratt & Co., for lumber....	3 92
Whitney & Tibbetts, for lumber....	11 46
Nichols & Hutchins, for refreshments, F. E. Shaw, for refreshments.....	7 00 19 00
American House, for entertainment of J. W. Shipman, and carriage hire	5 50
H. G. Holden, for cash paid for use of boat and labor.....	1 25
S. E. Munroe, for estimates on bridges across Merrimack River..	20 00
J. W. Shipman, for estimates on bridges across Merrimack River..	96 46
J. E. Hadley, for carriage hire.....	144 00
H. O. Morse, for carriage hire.....	40 00
E. H. Morse, for carriage hire.....	47 50
Beniah Packard, for carriage hire...	2 00
George Hedrick, for taking care of clock on High-street Church.....	50 00

Amounts carried forward, \$7,623 74 \$14,894 51

<i>Amounts brought forward</i> ,.....	\$7,623 74	\$14,894 51
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Paid for SUNDRIES :

To Hutchins & Co., for watering streets in front of City Hall.....	13 00	
S. M. Patterson, for decorating City Hall and barges.....	72 00	
Lowell District Telephone Co., for telephone service.....	60 50	
John McBride, for labor.....	1 75	
A. W. Heald, for labor with team..	3 50	
A. Merrill, for labor with team.....	1 50	
Daniel McCarthy, for labor with team,	1 00	
O. A. Simpson, for labor with team,	2 00	
Francis S. Smith, for labor with team,	3 00	
Lovejoy & Co's Express, for trans- portation.....	20	
Penniman & Co's Express, for trans- portation.....	2 50	
	<hr/>	7,784 69
Whole expenditure for the year.....		\$22,679 20

TRANSFERS.

Transferred to Appropriation for Fire Department	\$7,000 00	
Transferred to Appropriation for Com- mons	200 00	
Transferred to Appropriation for Public Buildings	10,000 00	
Transferred to Appropriation for City Library	700 00	
Transferred to Appropriation for Aid to Indigent Soldiers and Sailors.....	1,200 00	
	<hr/>	\$19,100 00
		\$41,779 20
Balance undrawn January 1, 1881.....		15,655 32
		<hr/>
		\$57,434 52
		<hr/>

PAUPERS.

Balance undrawn January 1, 1880.....	\$ 1,333 25	
Appropriated and assessed in 1880.....	36,000 00	
	<hr/>	\$37,333 25

RECEIPTS.

Received into the Treasury on account
of PAUPERS :

From Appropriation for Schools, for fuel, etc.....	\$298 50	
Appropriation for Roads and Bridges, for hay, etc.....	107 50	
Appropriation for Police, for sun- dries	5 00	
Appropriation for Fire Department, for hay, etc.....	217 67	
Appropriation for Lighting, for sundries	12 50	
Appropriation for Health, for pro- visions, etc.....	75 53	
Reserved Fund, for fuel, etc.....	31 84	
Commonwealth, on account of State Paupers.....	774 91	
Commonwealth, for burial of State Paupers.....	340 00	
City of Boston, for aid rendered Bridget Breen, Mrs. Robt. Lloyd, Mary Murphy, S. Barrett, Fred. Leighton, Thomas McDermott, Thomas McNabb and William Moran	210 89	
<i>Amounts carried forward</i>	<hr/> \$2,074 34	<hr/> \$37,333 25

Amounts brought forward..... \$2,074 34 \$37,333 25

Received into the Treasury on account
of PAUPERS:

From City of Cambridge, for aid rendered Mrs. Timothy Kelley and George L. Gilbert.....	8 75
City of Chelsea, for board of boys at Reform School.....	709 48
City of Fitchburg, for aid rendered Catherine Lawless, Patrick Noonan, Patrick Tobin, Jr., and Daniel Rock.....	54 80
City of Holyoke, for aid rendered Margaret Burns.....	3 00
City of Lawrence, for aid rendered Mary Kelley, Mrs. John Rosstran, Caroline Towey, Mrs. Joseph Daley, H. K. Stevens, W. H. Stevens, William Bateman and William Bacon.....	282 82
City of Salem, for aid rendered Mary Cronin and Michael McDonough.....	11 70
City of Somerville, for board of boys at Reform School.....	165 95
City of Springfield, for aid rendered Patrick Hayes and D. W. Burnham.....	9 51
City of Worcester, for aid rendered Katie Scott, James McManus and Levi L. Gleason.....	44 37
Town of Ayer, for aid rendered Bridget Foley.....	8 00
Town of Amesbury, for aid rendered Matthew Noonan and Henry Moran.....	39 50
Town of Arlington, for board of boys at Reform School and aid rendered Cornelius Reagan....	34 44
Town of Blackstone, for aid rendered Bridget Canfield and Katie Scott.....	195 00
Town of Bridgewater, for aid rendered Catherine Quinn and Thomas Glynn.....	49 00

Amounts carried forward..... \$3,690 66 \$37,333 25

<i>Amounts brought forward</i> ,.....	\$3,690 66	\$37,333 25
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Received into the Treasury on account
of PAUPERS :

From Town of Chelmsford, for aid rendered Elizabeth Donohoe. David Price, William T. Patch and Thomas Lawler.....	94 00	
Town of Danvers, for aid rendered Ann M. Welch, Mrs. William Henderson and William J. Welch	454 00	
Town of Dedham, for aid rendered Nancy Morse.....	19 00	
Town of Dennis, for aid rendered Mrs. Michael Smith.....	31 00	
Town of Dracut, for aid rendered J. Kittredge.....	130 00	
Town of Georgetown, for aid rendered John Felton and costs in case of John Felton.....	53 80	
Town of Groton, for aid rendered Almira Baker.....	4 00	
Town of Hardwick, for aid rendered William N. Smith.....	10 50	
Town of Holden, for aid rendered Mrs. Godfrey Levalley.....	11 60	
Town of Lynfield, for aid rendered George A. Abbott.....	17 00	
Town of Manchester, for aid rendered Ann Quinn.....	38 50	
Town of Malden, for board of boys at Reform School.....	11 23	
Town of Milford, for aid rendered Margaret Quinn.....	45 00	
Town of Natick, for aid rendered Ella Witherell.....	24 00	
Town of Needham, for aid rendered Martha Roy.....	60 00	
Town of Stoneham, for board of boys at Reform School and aid rendered Francis McRaun and William A. Packard.....	139 87	
Town of Tewksbury, for aid rendered Anthony McDonald.....	11 00	
Town of Tyngsboro', for aid rendered Sarah H. Farwell.....	10 00	

<i>Amounts carried forward</i>	\$4,855 16	\$37,333 25
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Amounts brought forward, \$4,855 16 \$37,333 25

Received into the Treasury on account
of PAUPERS:

From Town of Warwick, for aid rendered deref William Meloy	3 00
Town of Walpole, for aid rendered George Clark	8 00
Town of Weymouth, for aid rendered Hannah Handley, Catherine Slattery and Mary Briscoe . .	71 50
Town of West Dennis, for aid rendered Michael Smith	12 00
Town of Woburn, for board of boys at Reform School	59 82
Frank Battles, for board of Augustus S. Battles, at Danvers Insane Asylum	108 31
Alden Y. Caswell, for board of Mary A. Caswell at Worcester Insane Asylum	180 00
Mary Coughlin, for board of Maria Coughlin, at Worcester Insane Asylum	36 00
Clarence W. Fletcher, for board of Warren Fletcher at Worcester Insane Asylum	137 56
Estate of John L. Fletcher, for his board at Almshouse	133 00
C. H. Knowles, for board of Chas. V. Knowles at Asylum for the Insane at Northampton	82 80
J. P. Maxfield, for board of Horace Weaver at Almshouse	15 00
F. H. Penniman, for board of Hannah Penniman at Almshouse	130 00
J. W. Spalding, for board of Calista J. Spalding at Danvers Insane Asylum	137 02
Horace Weaver, for board at Almshouse house	30 00
Valentine L. Wilson, for board of Christiana Wilson at Worcester Insane Asylum	84 99
F. T. Greenhalge, for board of John Mangin	17 00

Amounts carried forward \$6,101 16 \$37,333 25

Amounts brought forward..... \$6,101 16 \$37,333 25

Received into the Treasury on account
of PAUPERS :

From L. F. Jewell, for aid rendered Amelia Taylor, Julia Mulraney, Martin Mulrenin, George A. Ab- bott, — Gillon, Henry Tighe, John Rostram, and railroad fares refunded	97 70	
John C. Woodward, for fuel for D. McCarty	9 00	
Michael Farrell, for rent paid to J. U. Gage	6 00	
J. A. & T. J. Dunn, for seating chairs	154 28	
Henry Marshall, for land	88 20	
Sarah H. Farwell, for overdraft ..	5 00	
Rachael E. Douglass, for overdraft	5 00	
Hannah O'Connell, for overdraft ..	5 00	
Peter Donahue, for overdraft	1 00	
Lorenzo Phelps, for board of Pat- rick O'Neil	24 00	
Lorenzo Phelps, for sales from farm	2,751 99	
	<hr/>	9,248 33
		<hr/>
		\$46,581 58
Transferred from Corporation Tax Account,		2,000 00
		<hr/>
		\$48,581 58
		<hr/> <hr/>

EXPENDITURES.

Paid SECRETARY OF THE BOARD
OF OVERSEERS OF THE POOR :

To Leonard F. Jewell, salary	\$800 00	
	<hr/>	\$800 00

Paid SUPERINTENDENT AND
CHAPLAIN OF INSTITUTIONS
AT CITY FARM, AND TEACH-
ER OF REFORM SCHOOL :

To Lorenzo Phelps, Superintendent, sal- ary	\$1,500 00	
William A. Lang, Chaplain and Teacher, salary	1,300 00	
	<hr/>	2,800 00
		<hr/>

<i>Amount carried forward</i> ,		\$3,600 00
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Amount brought forward..... \$3,600 00

Paid for LABOR AT ALMSHOUSE :

To John P. Eaton.....	\$420 00	
Henry S. Phillips.....	420 00	
Nicholas Peirce.....	360 00	
Jesse S. Bean.....	300 00	
William Welch	7 00	
Maria M. Mooney.....	260 00	
Ella S. Wright.....	244 00	
Marion Forbes.....	7 72	
Elnora E. Taft.....	19 50	
		<hr/>
		2,038 22

**Paid for FUEL, GRAIN, GROCERIES,
PROVISIONS, ETC., USED AT
ALMSHOUSE :**

To Wm. E. Livingston, for coal.....	\$474 23	
Coggin, Kidder & Co., for flour....	2,278 13	
Wright Bros. & James, for flour and beans.....	1,349 28	
S. A. Scripture & Co., for baking..	167 00	
George E. Scripture & Co., for flour and baking.....	214 50	
George E. Scripture, for flour and baking.....	163 00	
H. A. & S. A. Coburn, for oats....	6 60	
Wm. E. Livingston, for meal and oats	439 20	
S. N. Wood & Son, for meal, oats and salt.....	650 52	
G. N. & E. Nichols, for beans.....	85 62	
William Calderwood, for tobacco...	2 25	
S. C. Patrick, for tobacco and snuff,	40 90	
Franklin Cheney, for soap.....	2 40	
Davis, Sacker & Perkins, for coffee,	195 00	
Ela & Puffer, for groceries.....	13 27	
J. V. Drew, for candy.....	5 60	
E. W. Hall, for nuts, fruit and fire- works	19 19	
Charles E. Moody & Co., for rice..	42 80	
Moulton & Goodwin, for groceries..	84 60	
Nichols & Fletcher, for groceries....	213 68	
Spurr, Washburn & Holmes, for gro- ceries.....	1,023 15	
Wason, Peirce & Co., for rice.....	151 68	
A. W. Dows, for herbs.....	65	
		<hr/>
<i>Amounts carried forward</i>	\$7,623 25	\$5,638 22

Amounts brought forward,..... \$7,623 25 \$5,638 22

Paid for FUEL, GRAIN, GROCERIES,
PROVISIONS, ETC., USED AT
ALMSHOUSE:

To O. Blodgett, for slaughtering hogs..	14 00	
I. M. Chase, for beef and pork.....	463 39	
James Dollard & Son, for beef.....	313 68	
E. A. Gerry, for turkeys.....	28 04	
Gray Bros., for beef, provisions, etc..	472 41	
D. S. Gray, for provisions.....	223 07	
Hunt & Wilder, for pork, curing hams, and salt.....	89 25	
Jewett & Swift, for pork.....	247 50	
Michael Kelley, for beef.....	35 42	
A. S. Randlett, for beef.....	14 00	
Richardson Bros, for beef and pro- visions	197 99	
A. F. Wright, for beef.....	227 10	
Charles W. Wilder, for pork and salt,	109 49	
K. & S. A. Freeman, for fish.....	862 50	
French Bros., for fish.....	9 27	
Goodhue & Aiken, for fish.....	6 00	
Richardson Ice Co., for ice.....	49 50	
Boston & Lowell Railroad, for trans- portation.....	7 01	
Boston & Maine Railroad, for trans- portation.....	26 66	
Lovejoy & Co.'s Express, for trans- portation.....	50	
	<hr/>	11,020 03

Paid for CLOTHING, DRY GOODS,
BOOTS, SHOES, ETC., AT
ALMSHOUSE:

To William P. Brazer & Co., for hats and mittens.....	\$ 25 28	
J. P. Folsom & Co., for dry goods, etc.	204 31	
H. Hosford & Co., for dry goods, etc.	513 47	
Maker, Tarr & Co., for towels.....	1 50	
H. Hirshfield, agent, for caps.....	22 20	
Putnam & Son, for caps.....	11 00	
Willard A. Brown, for leather.....	39 76	
D. L. Dimock, for leather, etc.....	41 11	
D. Swan, for shoes.....	6 80	
Hapgood Wright, for shoes.....	2 75	
	<hr/>	868 18

Amount carried forward,..... \$17,526 43

Amount brought forward..... \$17,526 43

Paid for SUNDRIES AT ALMS-
HOUSE:

To Appropriation for Roads and Bridges, for labor, materials, etc.....	\$ 72 06	
Appropriation for Fire Department, for manure and wool waste.....	186 98	
Appropriation for Public Buildings, for labor.....	83 93	
Appropriation for Water Works, for interest on cost of extension of pipe, and use of water.....	145 39	
Mrs. C. W. Adams, for chestnut posts	15 86	
A. L. Brooks & Co., for lumber....	3 35	
Howes & Burnham, for lumber.....	98 55	
A. Lake, for labor on lumber.....	1 37	
M. C. Pratt & Co., for lumber and doors.....	203 05	
J. G. Peabody & Sons, for sash....	24 00	
Whitney & Tibbetts, for lumber....	11 26	
C. E. Adams, for hardware.....	6 89	
H. A. Fielding, for hardware, tools and seeds.....	129 92	
H. B. Shattuck, for hardware.....	2 10	
Frederick Taylor, for hardware and tools	42 11	
Boutwell Bros., for iron.....	7 82	
Frank P. Hill & Co., for iron.....	3 53	
H. R. Barker, for repairing hose, labor, etc.....	3 60	
T. Costello & Co., for pan, pipe, grate, trap, labor, etc.....	15 23	
S. G. Mack & Co., for grate, lining, etc.....	5 40	
Wallingford & Callaghan, for stoves, grates, fire pot, repairing stoves, furnaces, etc.....	60 50	
H. H. Wilder & Co., for grates, tun- nel, sink, cans, dust pan, stove, register, etc.....	59 55	
L. T. Eastman, for blacksmithing..	6 15	
M. V. B. Libbey, for shoeing horses,	58 09	
James S. Shedd, for plough moulds,	9 95	
E. Greenwood, for two-seated wagon,	125 00	
Hill Bros., for repairing carriages..	5 25	

Amounts carried forward..... \$1,386 89 \$17,526 43

<i>Amounts brought forward.....</i>	\$1,386 89	\$17,526 43
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Paid for SUNDRIES AT ALMS-
HOUSE:

To G. F. Hill, for spokes.....	3 25
C. A. Ross & Co., for repairing car- riages	18 78
J. A. Brabrook, for horse cover, re- pairing harnesses, etc.....	14 00
Sawyer & Taylor, for whip, sponge, repairing harnesses, etc.....	9 00
C. B. Coburn & Co., for oil, paint, alcohol, window cord, glass, brush- es, lanterns, shellac and lead.....	55 88
H. A. & S. A. Coburn, barrels and cows	128 00
Fiske & Spalding, for preservative, paper, brush, paint, etc.....	12 08
Jonathan Kendall, for lead, shellac, brushes, alcohol, twine, etc.....	36 23
Ryden & Rooks, for paint, paper and labor	16 49
Wm. E. Livingston, for lime, brick and cement.....	12 97
French & Puffer, for paper bags, brooms, baskets, etc.....	122 31
Knowles Bros., for foot ball.....	2 50
H. J. & E. B. Adams, for furniture, iron bedsteads, etc.....	564 11
Adams & Co., for mats.....	2 75
Benner Bros, for gimp.....	1 70
Crosby Furniture Co., for repairing tables	3 75
F. P. Coggeshall, for books, ink and pencils.....	20 33
H. C. Church, for stationery.....	3 41
J. Merrill & Son, for tags.....	65
Stone, Bacheller & Livingston, for printing.....	3 25
J. D. Crowell, for bean poles.....	50 10
Patten & Co., for plants.....	2 50
T. H. White & Co., for pear trees..	22 50
David Whiting & Sons, for shoats..	120 00
Rollins & Sargent, for mason work and material.....	214 83
E. A. & A. T. Smith, for concrete..	79 55

<i>Amounts carried forward,.....</i>	\$2,907 81	\$17,526 43
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Amounts brought forward..... \$2,907 81 \$17,526 43

Paid for SUNDRIES AT ALMS-
HOUSE:

Lowell District Telephone Co., for telephone service.....	30 25
E. H. Morse, for carriage hire.....	8 00
Nicholas Peirce, for use of wagon..	15 00
George W. Norris, for feeding horse,	1 00
William H. Anderson, for executing pension vouchers.....	16 00
John H. McAlvin, for cash paid for recording deed.....	65
John P. Eaton, for cash paid for railroad tickets.....	1 75
Maria Mooney, for cash paid for conveyance of four children to Infants Asylum.....	4 32
Lorenzo Phelps, for cash paid for cows and transportation.....	174 90
Nichols & Hutchins, for refreshments, use of dishes and labor...	130 00
Israel Putnam, for making cider....	26 31
B. F. Stevens, for making cider....	38 54
Brace & Lathrop, for exterminating vermin.....	50 00
C. T. Haskell, for filing saws.....	50
J. H. Haskell, for filing saws.....	1 20
George S. Cushing, for appraising property at Almshouse.....	15 00
Joseph S. Pollard, for appraising property at Almshouse.....	15 00
Boston & Maine Railroad, for transportation.....	10 50
Nashua & Lowell Railroad, for transportation.....	3 75
Town of Chelmsford, for taxes of 1880,	34 54

3,485 02

Paid on account of FREE DISPENSARY:

To Appropriation for Schools, for brush,	1 10
Appropriation for Water Works, for use of water.....	14 00
D. N. Patterson, for services as clerk,	122 47
Carleton & Hovey, for services of clerk	120 10

Amounts carried forward,..... \$257 67 \$21,011 45

<i>Amounts brought forward</i> ,.....	\$257 67	\$21,011 45
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Paid on account of **FRÉE DISPENSARY** :

To F. & E. Bailey & Co., for medicines,	27 16
F. H. Butler & Co., for medicine...	5 67
Carleton & Hovey, for medicine....	167 26
Crowell & Harrison, for medicine, etc.,	146 55
C. R. Kimball, for medicines.....	202 72
Weeks & Potter, for surgical instruments	15 95
Buttrick & Co., for sugar.....	4 99
J. & J. M. Pearson, for sugar.....	8 17
C. B. Coburn & Co., for shellac, paint, oil, etc.....	82
French & Puffer, for spittoons and basins	5 67
T. R. Garity, for repairing waste pipe.....	1 00
S. G. Mack & Co., for percolator..	1 00
N. J. Wier & Co., for enamelled kettle.....	1 30
H. B. Shattuck, for hardware.....	1 80
Frederick Taylor, for night latch...	60
Marden & Rowell, for printing.....	5 00
Stone, Bacheller & Livingston, for printing, etc.....	14 37
Bacheller, Dumas & Co., for blank book	3 00
J. Merrill & Son, for blank book....	2 20
Lizzie Bussell, for washing.....	1 76
A. L. Foster, for cash paid for washing.....	50

875 16

Paid for **DRUGS, MEDICINES AND SERVICES OF PHYSICIANS** :

To Carleton & Hovey, for medicine....	\$63 60
W. W. Duncan, for herbs.....	75
J. R. Hayes, for medicine.....	50
Nathan Allen, for professional services	3 00
Solon Bartlett, for professional services	12 00
F. W. Chadbourne, for professional services.....	4 00
J. J. Colton, for professional services	5 00

<i>Amounts carried forward</i>	\$88 85	\$21,886 61
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<i>Amounts brought forward,</i>	\$88 85	\$21,886 61
Paid for DRUGS, MEDICINES AND SERVICES OF PHYSICIANS :		
To J. Daly, for professional services....	20 00	
H. H. DeBeck for professional services	10 00	
W. G. Eaton, Jr., for professional services	10 00	
J. H. Gilman, for professional services	12 00	
C. Henotte, for professional services,	2 00	
A. W. Lavigne, for professional services	4 00	
George C. Osgood, for professional services.....	2 00	
Herman J. Smith, for professional services	2 00	
Charles H. Stanley, for professional services	5 00	
	<hr/>	155 85
Paid for COFFINS, INTERMENTS, ETC. :		
To Appropriation for School-Houses, for shellac, varnish, etc.....	\$ 8 10	
Appropriation for Public Buildings, for varnish and labor.....	175 13	
C. B. Coburn & Co., for alcohol and shellac.....	15 50	
Jonathan Kendall, for alcohol and asphaltum.....	3 30	
Howes & Burnham, for lumber.....	42 34	
M. C. Pratt & Co., for lumber.....	168 17	
J. W. Brooks, for burial of sundry persons.....	109 00	
C. T. Chamberlain, for burial of sundry persons.....	114 00	
Peter Davy, for burial of sundry persons.....	113 00	
Antoine Houde, for burial of sundry persons.....	14 00	
Hanavor & McDermott, for burial of sundry persons.....	34 00	
J. H. McDermott, for burial of sundry persons.....	92 00	
Frank Martin, for burial of sundry persons	93 00	
	<hr/>	981 54
<i>Amount carried forward,.....</i>		\$23,024 00

Amount brought forward..... \$23,024 00

Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS:

To City of Boston, for aid rendered Jacintha Bowles, Joanna Gannon, Anna Hunt, Mary E. Oakes, Bridget O'Brien, Mrs. William H. Philbrick, Mary Peirce, Sarah Shehan, Joanna Stevens, Mary J. Tuttle, Mary C. White, Agnes Underwood, Susan Johnston, Ann S. Roberts, Jose- phine Franklin, Mrs. Bartlett B. Drake, Mary Keyes, Ann O'Hearn, child of Jesse T. Oakley, Camillo Bravo, Patrick Garity, Nathaniel Lew, Michael T. McNamara, Joseph Harn, Daniel Crowley, William McComb, Edward Fallon, Patrick Welch, James Shaugh- nessy, William Gartland, Michael Glynn, Arthur F. Killeen, George B. Wood, Patrick Hanahan, burial of Hannah Perry and coffin for Thomas J. Tuttle.....	\$402 59
City of Cambridge, for aid rendered Winnifred White, Ellen Sheridan, Mrs. M. A. A. Dudley, Mary Mur- phy, Mrs. Michael Sheridan, Mary Butler, Mrs. Timothy Murphy and children, John P. Weber, Henry A. Mann, and burial of Ira B. White	138 40
City of Fall River, for aid rendered Mary McCormick and Catherine McCann	134 50
City of Lawrence, for aid rendered Nellie C. Moore, Mary O'Neil, Lizzie Burns, Margaret McDonald, Helen A. Stewart, Anna Lynch, Maggie Barron and Thomas Man- gan	156 30
City of Lynn, for aid rendered Mrs. Samuel C. Morey, Mrs. Lyman J. Morey, Edwin G. Howe and family, and Fred. L. Soule.....	146 65

Amounts carried forward..... \$978 44 \$23,024 00

Amounts brought forward, \$978 44 \$23,024 00

Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS :

To City of New Bedford, for aid rendered Catherine Clines and family...	24 50	
City of Somerville, for aid rendered Mrs. E. Stevens and Mrs. Stephen Richardson	62 45	
City of Springfield, for aid rendered Edward Donnelly.....	4 25	
City of Worcester, for aid rendered Flora Logan, Katie Scott and Patrick Behan.....	107 43	
Town of Ayer, for aid rendered Frank W. Straw.....	68 50	
Town of Beverly, for aid rendered A. W. Montcalm.....	62 20	
Town of Danvers, for aid rendered William J. Hatch.....	45 50	
Town of Peabody, for aid rendered Mrs. Thomas Caden.....	31 71	
Town of Topsfield, for aid rendered Joseph P. Stiles.....	110 50	
Town of Warren, for aid rendered B. F. Peirce.....	64 50	
Town of Weymouth, for aid rendered N. M. Reed.....	45 00	
	<hr/>	1,604 98

Paid HOSPITALS, ETC., FOR SUP-
PORT OF SUNDRY PERSONS :

To Essex County House of Correction, for support of Frank Herney, Peter Stakem, Thomas B. Tuttle, Michael Kelley, James Spellman, George Horn, George Johnson, George Farley and Michael Haggerty	99 93	
C. J. Adams, for support of prisoners in Middlesex County House of Correction.....	684 00	
Asylum for Chronic Insane, at Worcester, for support of Louisa Parker and Enoch Lewis.....	367 72	
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<i>Amounts carried forward.....</i>	\$1,151 65	\$24,628 98

<i>Amounts brought forward,.....</i>	\$1,151 65	\$24,628 98
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Paid HOSPITALS, ETC., FOR SUP-
PORT OF SUNDRY PERSONS:

To Commonwealth of Massachusetts, for support of Bridget Burns, Christina Wilson, Catherine Flynn, Harriet M. Russell, Bridget L. Brown, Honora Sheehan, Honora Thomas, Margaret O'Day, Catherine McDermott, Mary Callahan, Mary A. Holland, Maria Tibbetts, Bridget Fox, Bridget Moran, Caroline Atherton, Agnes Robinson, Mary E. Burke, Sarah A. Bowker, John P. Wehr, F. Hilton, Joseph Cabeo, Thomas Collins, Patrick Brennan, John E. O'Toole, Frank Fahey, William Ray, Jeremiah Griffin, Frank Carleton, Frank Paine, John Glover, Morris J. Connell, Cornelius McCarty, Henry O. Philbrick, Charles B. Day, Thomas J. Hoar, William J. Jenkins, E. S. Hunt and Allen McKinley	1,867 02	
Worcester Lunatic Hospital, for support of Ellen Golden, Roxanna Putnam, Eleanor B. Parker, Mary A. Caswell, Caroline M. Prescott, Christina Wilson, Ann Curley, Maria Coughlan, Flora Bethune, Elnora Wallace, Sarah A. Bowker, Warren Fletcher and John P. Wehr	1,939 46	
State Hospital for the Insane at Danvers, for support of Abby R. Virgin, Mary Cahill, Calista J. Spalding, Mary E. Butler, Catherine Flynn, Hannah S. Swift, Edith A. Lackey, Augustus S. Battles, James Hendricks, Michael W. Ring, Horace F. Slocum, James Callahan, G. W. Hopkins, Thomas J. Hoar, Charles B. Day, William J. Jenkins, Henry A. Rolfe, Alfred Wilde and Thomas Black....	1,843 20	

<i>Amounts carried forward.....</i>	<hr/> \$6,801 33	<hr/> \$24,628 98
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Amounts brought forward, \$6,801 33 \$24,628 98

Paid HOSPITALS, ETC., FOR SUP-
PORT OF SUNDRY PERSONS :

To Hospital for Insane at Northampton, for support of Jane Maguire, Eliza Perry, Nancy Peabody, Bridget Clune, Honora Thomas, George F. Lawrence and Charles V. Knowles,	971 19	
Taunton Lunatic Hospital, for sup- port of Jane McAnnelly	170 87	
St. John's Hospital, for support of Mary J. Sullivan, Anna Creighton, Ellen McCarron, Abby Boyle, Bridget McGrath, Mary Short, Mary O'Niel, Catherine Griffin, Rose Burns, Margaret Hoyland, Catherine McGrath, Mary Sullivan, Mrs. P. O'Brien, Nellie Lynch, Marelia Paragsay, Marie Paragsay, Ella Pronovost, Mrs. Francis La Rose, Jane Kelleher, Minnie O'- Niel, Abby Kelley, Laura De Coyne, Bridget Canfield, Maggie Murphy, Elizabeth King, Adele Mercerea, Margaret Gaffney, Mary Green, Rosalie Gannon, Jennie Emerson, Maria McCabe, Mary Cronin, Ellen McCarthy, Kate Hussey, Ellen Blanchard, Frank Burns, Edward Donnelly, Joseph St. John, John McElroy, Matthew Donlan, John Going, Michael Murphy, Samuel Mackay, Michael Walsh, Thomas Lawler, James McCarthy and Edward Horan	2,027 03	
		9,970 42

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF THE
ALMSHOUSE :

To Boston & Lowell Railroad, for trans- portation of furniture for William Bateman	60	
Boston & Maine Railroad, for rail- road tickets for sundry persons . . .	5 35	
<i>Amounts carried forward,</i>	\$5 95	\$34,599 40

<i>Amounts brought forward</i> ,.....	\$5 95	\$34,599 40
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Paid for AID RENDERED SUN-
DRY PERSONS OUT OF THE
ALMSHOUSE:

To J. E. Short, for railroad tickets for sundry persons.....	201 35
Ira Bailey, for board of Maria Baker,	84 00
C. E. Bohonon, for conveyance of sundry persons.....	2 15
Mrs. A. R. Bugbee, for board of Catherine Griffin.....	12 25
Francis Brady, for moving furniture for Martin Mulraney.....	1 00
J. Cowell, for moving goods for Mrs. John Tracey.....	1 50
Mrs. Martin Canfield, for assistance in cash.....	40 00
Hannah Campbell, for assistance in cash.....	48 00
Rebecca B. Coburn, for board of Nehemiah Jones.....	21 00
Ellen Curran, for assistance in cash,	4 00
Mrs. Willard Dudley, for assistance in cash.....	56 45
R. W. Davis, for board of Lucy Ordway.....	22 75
Mrs. P. J. Devine, for rent of tene- ment for Mary Campbell.....	60 00
Thomas Donahoe, for rent of tene- ment for Michael Daley.....	63 00
Rachel E. Douglass, for assistance in cash.....	5 00
Mrs. J. F. Dow, for board of Chris- tina Wilson.....	12 00
P. Donahue, for moving furniture..	1 00
Philip Doherty, for moving furniture,	1 00
Theodore Edson, for board of Nellie Slater.....	6 00
Sarah H. Farwell, for assistance in cash.....	25 00
Mrs. Loraine Foster, for board of Sarah E. Moulton.....	7 75
James U. Gage, for rent of tenement for Michael Farrell.....	6 00
Margaret Gorman, for assistance in cash.....	12 00

<i>Amounts carried forward</i> ,.....	\$699 15	\$34,599 40
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<i>Amounts brought forward.....</i>	\$699 15	\$34,599 40
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Paid for AID RENDERED SUN-
DRY PERSONS OUT OF THE
ALMSHOUSE :

To W. B. Glover, for assistance in cash,	24 00
William M. Green, for rent of tene- ment for Eben Crane.....	48 00
Mrs. William Henderson, for assist- ance in cash.....	84 00
Mary Harris, for assistance in cash,	60 00
Joseph Hovey, for board of Mary Carter	35 00
Nelson Ivy, for conveyance of sick person	70
Mrs. A. F. Jewett, for rent of tene- ments for Mrs. John Tracey and Ellen Curran.....	24 00
Timothy Kelley, for moving furni- ture for sundry persons.....	3 75
D. P. Knowlton, for moving furni- ture for Bridget Bradley.....	2 00
H. S. Lilley, for board of Olive Hand- ley	1 92
Leroy Lenfest, for furniture for John Rostran.....	2 50
John Livesay, for board of Sarah A. Bowker	20 29
Mrs. M. J. Nichols, for board of S. E. Moulton.....	22 75
Almira C. Nichols, for board of S. E. Moulton.....	22 75
Hannah O'Connell, for board of Lizzie and Bernard O'Niel.....	5 00
Putnam & Son, for clothing for H. Douglass.....	8 00
Nancy L. Parker, for board of John Fletcher	20 00
Zephirin Perusse, for board of Mel- vina Dubois.....	12 00
John Perry, for board of Mrs. Ernest Godicke and child.....	16 50
Margaret Quinn, for assistance in cash	60 00
John W. Reed, for rent of tenement for Michael Conway.....	48 00

<i>Amounts carried forward,.....</i>	<u>\$1,220 31</u>	<u>\$34,599 40</u>
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Amounts brought forward,..... \$1,220 31 \$34,599 40

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF THE
ALMSHOUSE :

To Mrs. C. B. Richmond, for board of S. E. Moulton.....	38 25	
Ellen Riley, for board of Mary Ward	8 60	
William Roberts, for moving furni- ture for Emma Jordan.....	3 00	
Kilburn Smith, for assistance in cash,	15 00	
Jane Turner, for assistance in cash..	42 00	
Charles G. Tibbets, for board and nursing Susan and Rose O'Connor,	4 00	
J. S. Tryon, for moving furniture for Emma Jordan.....	2 00	
Redmond Welch, for moving furniture for Mrs. John Tracy.....	2 50	
Lizzie Worden, for board and nursing Peria Bannister.....	5 50	
	<hr/>	1,341 16

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE OVER-
SEERS OF THE POOR :

To Rufus O. Adams, for wood.....	\$ 6 00	
Buttrick & Co., for groceries.....	166 50	
Charles Callahan, for groceries, pro- visions, etc.....	294 41	
H. C. Castles, for groceries.....	3 00	
H. Cameron, for milk.....	10 55	
John Courtney, for groceries.....	66 00	
F. H. Chandler, for groceries.....	40 00	
Cook, Taylor & Co., for dry goods..	3 00	
N. Duncharne, for groceries.....	8 00	
Donnovan Bros., for groceries and provisions.....	3 00	
Thomas Eagan, for groceries.....	18 00	
Ela & Puffer, for groceries.....	70 00	
Fuller, Clark & Fuller, for groceries,	37 00	
Fuller & Clark, for groceries.....	4 00	
Hallowell & Donnell, for provisions,	62 00	
Hartwell & Co., for groceries.....	7 00	
J. C. Hoyt, for shoes.....	2 35	
Ingham & Co., for groceries.....	21 00	
W. A. Ingham, for groceries.....	101 00	
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<i>Amounts carried forward</i>	\$922 81	\$35,940 56

Amounts brought forward,..... \$922 81 \$35,940 56

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE OVER-
SEERS OF THE POOR:

To C. J. H. Judkins, for groceries.....	72 00	
Kelley Bros., for provisions.....	92 40	
Henry F. Keyes, for groceries.....	54 00	
D. Kittredge & Son, for shoes.....	15 25	
Henry A. Kittredge, for shoes.....	16 50	
William Kittredge, for fuel.....	43 00	
Edward Kelley, for groceries.....	49 00	
Wm. E. Livingston, for coal and wood	42 00	
A. McSorley, for groceries and pro- visions.....	109 27	
D. W. Manning, for groceries.....	68 00	
Christopher Mooney, for groceries..	3 00	
McFarland & Pollard, for groceries,	8 00	
Michael J. Noonan, for groceries...	5 00	
John Nolan, for groceries.....	30 00	
Nichols & Fletcher, for groceries...	74 00	
J. O'Dwyer, for groceries.....	15 00	
James Owens, for groceries.....	106 00	
C. O'Hearn, for groceries.....	3 00	
John D. Parker, for groceries.....	11 00	
Runels & Vinal, for groceries.....	12 00	
Runels Bros., for groceries.....	45 00	
Stickney & Spofford, for groceries..	65 25	
Harrison W. Streeter, for groceries..	164 00	
John Stiles & Co., for groceries....	68 00	
James Slattery, for groceries.....	5 00	
D. Swan, for boots.....	2 50	
George W. Townsend, for groceries,	6 00	
R. J. Thomas, for groceries.....	8 00	
		2,114 98

Paid for FUEL, LABOR, ETC., OUT
OF ALMSHOUSE:

To Michael Farrell, for sawing wood...	\$ 54 50
William Husband, for sawing wood..	28 25
James Hickey, for sawing wood....	103 00
Daniel O'Niel, for sawing wood....	22 75
Frank Eagan, for sawing wood.....	3 75
John McBride, for sawing wood....	15 00
John Noonan, for sawing wood.....	6 38
Patrick Hurley, for sawing wood....	9 00

Amounts carried forward, \$242 63 \$38,055 54

<i>Amounts brought forward.....</i>	\$242 63	\$38,055 54
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Paid for FUEL, LABOR, ETC., OUT
OF ALMSHOUSE:

To Thomas McLaughlin, for sawing wood	4 50
F. T. Greenhalge, for cash paid M. Walsh, for sawing wood.....	39 00
Michael Regney, for sawing wood..	6 25
John Behan, for sawing wood.....	10 75
Peter Slavin, for sawing wood.....	7 88
William Scully, for sawing wood....	6 00
Michael Walsh, for sawing wood....	94 88
S. Newhall, for measuring wood....	10 25
S. M. Patterson, for services in managing wood yard.....	50 00
Robert Blanchard, for wood.....	1,104 80
George C. Butler, for wood.....	700 64
Taylor & Wilson, for wood.....	1,465 43
Wm. E. Livingston, for 199 tons coal,	1,140 27
Nashua & Lowell Railroad, for freight on wood.....	64 14
Appropriation for Roads and Bridges, for fuel, freight and labor.....	3,910 09

8,857 51

Paid for SUNDRIES OUT OF ALMS-
HOUSE:

To Appropriation for School-Houses, for hardware, labor, etc.....	\$13 24
Appropriation for Roads and Bridges, for labor	9 00
Appropriation for Public Buildings, for lumber, labor, etc.....	82 31
Walter F. Chapman, for services in the office of Secretary of the Overseers of the Poor.....	471 00
L. F. Jewell, for cash paid for postage, travelling expenses, expenses of committee, telegrams, etc.....	66 33
George S. Cushing, for travelling expenses to Providence.....	4 20
F. T. Greenhalge, for cash paid expenses of committee to Worcester,	28 95
F. D. Munn, for expenses to Springfield.....	3 00
A. L. Brooks & Co., for lumber....	8 42
Howes & Burnham, for lumber.....	43 70
M. C. Pratt & Co., for lumber.....	64 53

<i>Amounts carried forward.....</i>	\$794 68	\$46,913 05
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Amounts brought forward, \$794 68 \$46,913 05

Paid for **SUNDRIES OUT OF ALMS-
HOUSE:**

To Whitney & Tibbetts, for lumber....	40 82
H. A. Fielding, for hardware and wheelbarrow.....	7 34
H. B. Shattuck, for nails.....	2 19
Frederick Taylor, for brackets.....	50
T. H. Curtis, for repairing lock	50
T. R. Garity, for pipe, fittings, plumbing. etc.....	181 91
Rollins & Sargent, for mason work and material.....	39 50
George W. Pearson, for roofing wood shed.....	44 10
E. A. & A. T. Smith, for concrete..	65 50
J. H. Haskell, for filing saws.....	19 92
F. P. Coggeshall, for blank book and ink.....	5 00
J. Merrill & Son, for books, station- ery, etc.	7 57
Marston & Prince, for books, sta- tionery, etc.	4 52
Brown & Gove, for printing.....	14 25
Campbell & Hanscom, for printing and binding.....	20 25
Huse, Goodwin & Co., for blank books	6 00
C. L. Knapp & Son, for printing and blank books.....	49 50
Marden & Rowell, for printing and envelopes	14 00
Stone, Bacheller & Livingston, for printing and blank book.....	13 50
Charles H. Fletcher, for carriage hire,	1 00
G. L. Huntoon, for carriage hire...	15 00
J. E. Hadley, for carriage hire.....	2 50
H. O. Morse, for carriage hire.....	70
E. H. Morse, for carriage hire.....	70
G. W. Norris, for carriage hire....	17 70
J. C. Little, for teaming.....	50
James Leach, for teaming.....	1 00
William Roberts, for teaming.....	6 00
Alanson Briggs and Albion Yeaw, for serving writ on Town of Georgetown	6 80

1,383 45

Amount carried forward,.....

\$48,296 50

PAUPERS.

107

<i>Amount brought forward</i> ,.....		\$48,296 50
Paid for LAND :		
To Henry Marshall, for land on Chelmsford street, as per resolution.....	56 45	
	<hr/>	56 45
Whole expenditure for the year.....		\$48,352 95
Balance undrawn January 1, 1881.....		228 63
		<hr/>
		\$48,581 58
		<hr/>

POLICE.

Balance undrawn January 1, 1880.....	\$ 1,126 41	
Appropriated and assessed in 1880.....	50,000 00	
	<hr/>	\$51,126 41

RECEIPTS.

Received into the Treasury on account
of POLICE :

From Albert Pinder, City Marshal, for services of police officers.....	\$862 37	
Merrimack Manufacturing Co., for services of police officers.....	216 87	
Samuel P. Hadley, Clerk of Police Court, for fees of police officers in services of process and as witnesses, etc.....	4,102 72	
	<hr/>	5,181 96
		<hr/>
		56,308 37
Transferred from Corporation Tax Account		800 00
		<hr/>
		\$57,108 37
		<hr/> <hr/>

EXPENDITURES.

Paid CITY MARSHAL AND POLICE
JUSTICE :

To Albert Pinder, City Marshal, salary,	\$1,600 00	
Nathan Crosby, Police Justice, salary,	100 00	
	<hr/>	\$1,700 00
<i>Amount carried forward</i> ,.....		<hr/> <hr/>
		\$1,700 00

Amount brought forward..... \$1,700 00

Paid for SERVICES OF POLICE
OFFICERS :

To Jacob G. Favor, Deputy Marshal...	\$1,098 00
David H. Goodhue, Captain of Night Police	1,098 00
Frank Goodwin, Sergeant.....	1,001 80
Patrick Kelley, Sergeant.....	986 25
Levi Brown.....	892 50
Allen P. Bickford.....	815 00
John Buchanan.....	740 00
John C. Blood.....	834 37
James Crowley.....	865 62
John C. Cox.....	47 50
Cornelius Collins.....	726 25
Peter T. Corcoran.....	571 25
Daniel D. Driscoll.....	77 50
James Dunlavy.....	18 75
Asa F. Esty.....	921 25
Harrison H. Fuller.....	915 00
William P. Farrington.....	482 50
Henry Farrington	918 75
Moses T. Flanders.....	731 87
John C. Furlong.....	648 75
Henry Freeman.....	286 25
John H. Griffin.....	87 50
Charles Gregg.....	601 87
Willis L. Gardner.....	587 50
Daniel M. Hayes.....	918 75
Charles Howard.....	917 50
James Hadley.....	731 25
Simon B. Harris.....	886 87
Alexander W. Harper.....	10 00
John Hixson.....	17 50
Thomas Ingalls.....	841 25
William B. Jones.....	918 75
William R. Kew.....	626 87
Isaac L. Libbey.....	825 00
Albert E. Libbey.....	857 50
William M. Lee.....	846 25
Edward Lavelle.....	893 75
Daniel W. Lane.....	768 75
Frank N. Miles.....	674 37
John A. Meloy.....	800 00
James McLaughlin.....	92 50
John F. McCaffrey.....	885 62

Amounts carried forward..... \$28,466 51 \$1,700 00

Amounts brought forward..... \$28,466 51 \$1,700 00

Paid for SERVICES OF POLICE
OFFICERS :

To M. E. McDonald.....	916 25
James A. McQuade.....	847 50
James McNabb.....	856 87
Charles J. Morse.....	17 50
Sumner S. Mitchell.....	588 12
John O'Connell.....	544 37
Mason W. Presby.....	925 00
Charles C. Packard.....	650 62
Alonzo J. Page.....	938 12
Henry C. Pike.....	813 75
Thomas F. Ring.....	825 00
Lawrence Roark.....	499 87
John L. Stevens.....	250 00
Thomas J. Sanborn.....	903 12
Edwin A. Stackpole.....	17 50
Frank T. Thissell.....	896 87
John W. Tilton.....	997 50
Herman N. Tilton.....	908 75
Henry M. Thompson.....	916 25
Luke Veo.....	925 00
James E. Webster.....	888 12
Levi H. Witham.....	929 37
Thomas Walsh.....	932 50
Daniel Walker.....	896 25
Augustus Weymouth.....	417 50

46,768 21

Paid SPECIAL POLICE FOR FOURTH
OF JULY :

To Cortes M. Allen.....	\$6 25
William W. Aylward.....	6 25
William Clifford.....	6 25
Christopher Coffee.....	6 25
George B. Crawford.....	6 25
John Curry.....	6 25
Augustus Dana.....	6 25
Augustus B. Foss.....	6 25
Michael Flynn.....	6 25
Patrick Fitzpatrick.....	6 25
Michael H. Farrell.....	6 25
Joseph Gallagher.....	6 25
George M. Gale.....	6 25
Samuel Guptill.....	6 25

Amounts carried forward..... \$87 50 \$48,468 21

<i>Amounts brought forward.....</i>	\$87 50	\$48,468 21
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Paid SPECIAL POLICE FOR FOURTH
OF JULY :

To	Richard Green.....	6 25
	Patrick Galvin.....	6 25
	Cornelius Howard.....	6 25
	George L. Hubbard.....	6 25
	Myron D. Hill.....	6 25
	John M. Hammond.....	6 25
	Robert J. Johnson.....	6 25
	Thomas Kerwin.....	6 25
	Henry W. Leach.....	6 25
	Patrick H. Lee.....	6 25
	Charles W. Maborn.....	6 25
	Frank McManus.....	6 25
	Allen P. Miller.....	6 25
	William B. Moffitt.....	6 25
	Walter Nichols.....	6 25
	Alvin F. Nudd.....	6 25
	John O'Hare.....	6 25
	Charles Paul.....	6 25
	John L. Powers.....	6 25
	Chester Ryder.....	6 25
	Joseph Ritchie.....	6 25
	Patrick Rowe.....	6 25
	George A. Saunders.....	6 25
	James Sullivan.....	6 25
	John Teague.....	6 25
	Alonzo H. Vining.....	6 25
	Patrick J. White.....	6 25
	Michael Walsh.....	6 25
	Daniel H. Wiley.....	5 00

267 50

Paid for SUNDRIES :

To	Appropriation for Schools, for broom, pail, brushes, feather duster and mats	9 86
	Appropriation for School-Houses, for oil and labor.....	4 97
	Appropriation for Roads and Bridges, for labor and stone.....	48 91
	Appropriation for Paupers, for wood,	5 00
	Appropriation for Public Buildings, for broom and labor.....	130 32
	Appropriation for Water Works, for meter, pipe, labor, etc.....	30 43

<i>Amounts carried forward,.....</i>	\$229 49	\$48,735 71
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<i>Amounts brought forward.....</i>	\$229 49	\$48,735 71
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Paid for SUNDRIES :

To Appropriation for Water Works, for use of water.....	46 57	
William Clifford, for services as janitor and fireman.....	732 00	
Albert Pinder, for cash paid travelling expenses, conveyance of officers, expressing, etc.....	24 60	
J. G. Favor, for cash paid for postage stamps, telegrams, conveyance of prisoners, etc.....	49 05	
W. P. Farrington, for cash paid for burying dogs.....	2 50	
H. H. Fuller, for cash paid for conveyance of prisoners and insane persons.....	196 40	
D. M. Hayes, for travelling expenses, telegrams, etc.....	45 95	
Simon B. Harris, for use of horse and carriage, travelling expenses, etc.,	110 55	
William M. Lee, for burying dogs..	3 00	
Isaac L. Libby, for cash paid for washing, medicine, cloth, etc.....	65 25	
B. G. Mooney, for travelling expenses, etc.	5 25	
M. E. McDonald, for cash paid for conveyance of prisoners, travelling expenses, telegrams, etc.....	90 85	
Henry C. Pike, for cash paid for burying dog.....	50	
Daniel Walker, for travelling expenses, etc.....	2 70	
Augustus Weymouth, for cash paid for conveyance of prisoners.....	11 15	
A Buswell, for professional services,	3 00	
F. R. Rix, for professional services,	14 00	
Joseph H. Smith, for professional services.....	3 00	
Herman J. Smith, for professional services.	2 00	
Jesse A. Viles, for treatment of horse,	3 50	
Robert Wood, for treatment of horse,	1 50	
George H. Richardson, for reporting and transcribing testimony in sundry cases.....	52 80	
A. L. Brooks & Co., for lumber....	80 98	

<i>Amounts carried forward,</i>	\$1,776 59	\$48,735 71
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Amounts brought forward..... \$1,776 59 \$48,735 71

Paid for SUNDRIES :

To	Howes & Burnham, for lumber.....	39 60
	M. C. Pratt & Co., for moulding...	37
	H. A. Fielding, for padlocks, keys and glue.....	26 75
	Rice & Co., for wire cloth.....	3 06
	H. B. Shattuck, for hardware.....	3 83
	Frederick Taylor, for hardware.....	13 60
	H. R. Barker, for pipe, fittings, pack- ing, labor, etc.....	23 90
	T. R. Garity, for pipe, fittings and labor.....	22 44
	John Gilchrist, for packing and labor,	10 95
	H. H. Wilder & Co., for buckets and dippers.....	28 25
	S. & G. H. Convers, for draft and dimensions of wagon.....	5 00
	Hill Bros., for wagon, runners, etc.,	254 45
	M. V. B. Libbey, for shoeing horse,	8 20
	J. A. Brabrook, for harness, horse cover, blankets, and handles on clubs.....	72 25
	Bachelor, Dumas & Co., for blank books and paper.....	20 61
	H. C. Church, for stationery.....	1 10
	J. Merrill & Son, for blank books, stationery, mucilage and pens....	77 21
	C. L. Knapp & Son, for printing...	6 00
	Brace & Lathrop, for insect powder,	10 00
	Buttrick & Co., for brooms and duster.....	2 20
	G. J. & D. Bradt, for crackers.....	35 75
	George E. Scripture, for crackers...	30 00
	French & Puffer, for cuspadores....	3 90
	Charles Gould & Co., for soap.....	4 00
	P. M. Jefferson, for soap.....	4 00
	A. R. Proper, for pitcher.....	65
	John D. Parker, for matches, tea and sugar.....	33 77
	Richardson Ice Co., for ice.....	27 00
	C. P. Talbot & Co., for ammonia...	12
	Offutt & Whittaker, for basket, dust pan, spittoon, etc.....	1 95
	J. F. Puffer & Son, for feather duster,	1 75
	Sherman & Manning, for chairs, lounge and cushion.....	14 25

Amounts carried forward..... \$2,563 50 \$48,735 71

Amounts brought forward..... \$2,563 50 \$48,735 71

Paid for SUNDRIES :

To C. A. Hayward & Co., for corrugated carpeting and hose.....	37 63	
R. S. Clifford, for repairing clock...	1 00	
Alvin Lawrence, for repairing badges,	9 65	
Raynes Bros., for repairing pins....	30	
O. A. Richardson, for duplex whistles,	6 00	
Fiske & Spalding, for painting, varn- ishing and lettering.....	4 72	
Jonathan Kendall, for paint, lead and alcohol	5 95	
Charles E. Dame, for whitewashing..	13 13	
John L. Powers, for mason work...	2 50	
Wm. E. Livingston, for coal.....	327 71	
George W. Pearson, for roofing....	53 24	
Luther Richards, for removing build- ing.....	25 00	
E. J. Noyes, for horse.....	200 00	
Lowell Gas Light Co., for gas.....	583 98	
Lowell District Telephone Co., for telephone service.....	115 95	
Pioneer Telephone Co., for telephone service	1 50	
Samuel Churchill, for refreshments for police officers at Fair Grounds,	5 00	
W. R. Kennedy, for damage to wagon,	3 70	
Timothy Kelley, for conveyance of prisoner	50	
William Roberts, for teaming.....	2 00	
G. W. Norris, for use of horse and carriage and keeping horse.....	207 50	
Hutchins & Co., for watering street,	6 50	
		4,176 96
Paid S. B. Harris as per resolution of City Council.....	\$750 50	
		750 50
Whole expenditure for the year.....		\$53,663 17
Balance undrawn January 1, 1881.....		3,445 20
		<u>\$57,108 37</u>

FIRE DEPARTMENT.

Balance undrawn January 1, 1880.....	\$ 1,395 15	
Appropriated and assessed in 1880.....	45,000 00	
	<hr/>	\$46,395 15

RECEIPTS.

Received into the Treasury on account
of FIRE DEPARTMENT:

From Appropriation for School-Houses, for lumber, labor, etc.....	22 18	
Appropriation for Paupers, for manure, labor, etc.....	186 98	
Appropriation for Roads and Bridges, for sundries.....	1 50	
Appropriation for Sewers and Drains, for horse, use of hose, etc.....	235 00	
Appropriation for Commons, for sundries	50	
Appropriation for Water Works, for labor, etc.....	440 57	
Lowell Bleachery Co., for washing out pipe.....	6 00	
Ruel F. Britton, for horse.....	150 00	
Willard Brown & Co., for old hose,	57 00	
W. A. Brown, for old hose.....	24 90	
Benjamin G. Brown, for horse and collar	127 00	
L. G. Howe, for use of ward room, etc.	26 10	
E. S. Hosmer, for old iron.....	21 56	
Langley & Smith, for old copper..	62 47	
	<hr/>	
<i>Amounts carried forward.....</i>	<i>\$1,361 76</i>	<i>\$46,395 15</i>

Amounts brought forward,..... \$1,361 76 \$46,395 15

Received into the Treasury on account
of FIRE DEPARTMENT:

To J. H. Maxfield, for badge.....	5 00	
William Meloy, for rent of tenement,	77 50	
A. W. Monty, for old hose.....	42 40	
George W. Norris, for overcharge on bill.....	3 00	
C. A. Ross & Co., for wagon.....	5 00	
William Stockwell, for badge.....	5 00	
George B. Whitney, for tap bell....	3 75	
Atwell F. Wright, for horse.....	100 00	
	<hr/>	1,603 41
		<hr/>
Transferred from Reserved Fund.....		\$47,998 56
		7,000 00
		<hr/>
		\$54,998 56
		<hr/>

EXPENDITURES.

Paid CHIEF ENGINEER AND AS-
SISTANT ENGINEERS:

To Ruel F. Britton, Chief Engineer....	\$400 00	
Edward S. Hosmer, Chief Engineer,	800 00	
Hiram N. Hall, 1st Assistant Engi- neer and Clerk.....	175 00	
Edward S. Hosmer, Assistant Engi- neer.....	62 50	
James F. Norton, Assistant Engi- neer.....	125 00	
Samuel W. Taylor, Assistant Engi- neer.....	62 50	
Joseph W. White, Assistant Engi- neer.....	125 00	
	<hr/>	\$1,750 00

Paid for SERVICES OF DRIVERS:

To George Teel.....	\$252 00	
Henry Boynton.....	766 00	
George B. Whitney.....	732 00	
Edwin J. Little.....	768 00	
J. Harrington.....	751 00	
	<hr/>	
<i>Amounts carried forward</i>	\$3,269 00	\$1,750 00

<i>Amounts brought forward</i>	\$3,269 00	\$1,750 00
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Paid for SERVICES OF DRIVERS :

To T. J. Farrell	756 00	
J. A. Peirce.....	756 00	
William H. Meloy.....	756 00	
W. L. Peabody.....	756 00	
H. J. Foster.....	768 00	
James Cowell.....	504 00	
William King.....	496 00	
J. L. Flagg.....	501 00	
A. B. Smith.....	40 00	
J. Ward	166 00	
James Smith.....	20 00	
R. O'Connell.....	20 00	
J. H. Tucker.....	20 00	
G. M. Clary.....	2 00	
	<hr/>	8,830 00

Paid for SERVICES OF FIREMEN :

To Members of the several companies for services for the year ending No- vember 1, 1880.....	\$9,873 97	
	<hr/>	9,873 97

Paid for HAY, GRAIN, ETC. :

To Appropriation for Paupers, for hay..	\$206 67
A. F. Blodgett, for straw.....	46 03
H. A. Coburn, for hay.....	32 84
J. B. Cover & Co., for hay and straw,	15 33
F. F. Carey, for straw.....	14 30
Henry P. Davis, for straw.....	7 52
W. P. Foye, for hay, straw, shorts and oats.....	101 26
H. J. Foster, for straw.....	7 11
Charles H. Griffin, for hay.....	9 57
B. F. Hodges, for hay.....	37 84
Knapp Bros., for carrots.....	57 40
Wm. E. Livingston, for meal, shorts, oats, hay and straw.....	535 96
Patrick Lynch, for hay.....	73 37
J. I. Murch, for hay.....	7 42
G. W. Norris, for hay.....	2 24
Walter Parkhurst, for hay.....	28 21
Stiles, Rogers & Co., for hay, oats and shorts.....	172 70
Arthur W. Shattuck, for hay.....	30 88

<i>Amounts carried forward</i> ,	\$1,386 65	\$20,453 97
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<i>Amounts brought forward.....</i>	\$1,386 65	\$20,453 97
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Paid for HAY, GRAIN, ETC. :

To J. N. Trull, for hay and straw.....	92 43	
John Trull, for hay.....	43 56	
George H. Tryder, for straw.....	8 30	
S. N. Wood & Son, for hay, oats, shorts and straw.....	435 14	
William H. Wiggin, for hay.....	63 36	
	<hr/>	2,029 44

Paid for FUEL :

To Appropriation for Schools, for coal..	\$ 84 00	
Appropriation for Roads and Bridges, for wood, coal and labor.....	229 83	
Appropriation for Paupers, for wood,	11 00	
Boston & Lowell Railroad, for trans- portation.....	8 40	
Howard Snelling & Co., for cannell coal.....	84 00	
Wm. E. Livingston, for coal.....	603 62	
	<hr/>	1,020 85

Paid for HORSES, CARRIAGES,
HARNESSES, ETC. :

To E. J. Noyes, for two horses.....	\$425 00	
Joseph L. Noyes, for two horses, ex- change and use of horses.....	669 00	
J. L. Noyes & Son, for one pair horses and sleigh.....	460 00	
Appropriation for Roads and Bridges, for repairing carriages, shoeing horses, etc.....	362 24	
A. H. Abbott, for repairing carriages,	32 25	
H. R. Barker, for repairing steamer,	336 06	
James Barris, for repairing carriages,	3 30	
S. & G. H. Convers, for repairing carriages and gong.....	174 10	
G. H. Convers, for repairing car- riages.....	15 80	
Cahill Bros., for blacksmithing.....	7 50	
Richard Dobbins. for repairing steamer.....	290 90	
Thomas J. Farrell, for wagon.....	125 00	
Frank P. Hill & Co., for iron.....	1 62	
Hunneman & Co., for valves and ex- press charges.....	12 75	
M. V. B. Libbey, for shoeing horses,	4 09	

<i>Amounts carried forward.....</i>	\$2,919 61	\$23,504 26
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Amounts brought forward,..... \$2,919 61 \$23,504 26

Paid for HORSES, CARRIAGES,
HARNESSES, ETC.:

To Louis Laflam, for varnishing wagon,	12 00
Manchester Locomotive Works, for repairing hose carriage.....	6 56
D. E. Owen, for hitching bars, snaps and hitches.....	92 00
C. B. Relyea, for repairing carriages,	14 40
C. A. Ross & Co., for repairing car- riages, etc.....	46 92
Swett & Robbins, for two wagons and repairing carriages.....	680 09
Edwin Sanborn, for repairing car- riages	4 29
Thomas C. Sawyer & Sons, for con- cord wagon.....	150 00
T. M. Bolton & Co., for bridle and repairing harnesses.....	29 85
Robert Barris, for blankets, dusters, new harness and repairing har- nesses	133 10
J. A. Brabrook, for repairing har- nesses	114 07
S. L. Butman, for new harness and repairing harnesses.....	60 70
W. P. Brazer & Co., for horse covers, robe and blanket.....	29 50
Charles A. Berry, for harness and hangers.....	40 00
A. H. Cluer, for traces, tugs and curry-comb.....	8 00
H. H. Easterbrook, for snaps, hitches, lanterns and dies for buttons.....	144 50
M. Meaney, for canvas covers, cush- ion, etc.	40 10
Sawyer & Taylor, for new harnesses, repairing harnesses, snaps, bells, blanket, rope, etc.....	211 07
Joseph Speddy, for swinging harness, hooks, labor, etc.....	37 75
C. Zimmer & Son, for springs and key	2 50
H. C. Brothers, for medicine for horses	4 20

Amounts carried forward..... \$4,781 21 \$23,504 26

Amounts brought forward, \$4,781 21 \$23,504 26

Paid for HORSES, CARRIAGES,
HARNESSES, ETC.:

To Carleton & Hovey, for medicine for horses	11 20	
Jesse A. Viles, for treatment of horses	40 00	
Robert Wood, for treatment of horses, R. F. Britton, for use of horse and carriage	34 00	
	200 00	
	<hr/>	5,066 41

Paid for FIRE ALARM TELEGRAPH:

To George B. Whitney, for services as operator	\$300 00	
H. J. Foster, for services	8 00	
Moses T. Crane & Co., for wire, gong, insulators, signal boxes, keys, etc.	1,087 26	
Merrimack Manufacturing Co., for electric magnets	12 50	
Abiel Perry, for zinc	101 08	
C. P. Talbot & Co., for oil vitriol, bi-carbonate soda, muriatic acid and blue vitriol	171 91	
	<hr/>	1,680 75

Paid for SUNDRIES:

To Sundry persons, for labor as per pay-rolls	\$1,086 59	
Appropriation for School-Houses, for lumber, paint, labor, etc.	269 58	
Appropriation for Sewers and Drains, for clearing sewers	3 75	
Appropriation for Public Buildings, for brushes, oil, putty, glass, shellac, labor, etc.	199 34	
Appropriation Water Works, for use of water	13,637 00	
A. L. Brooks & Co., for lumber	178 31	
Joseph C. Bachelder, for lumber	96	
Davis & Sargent, for lumber	150 78	
Griffin & Lake, for labor on lumber, Gordon & Kimball, for posts, rails, balusters, brackets, labor, etc.	23 92	
A. H. Gilbert, for frames	33 92	
	2 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$15,586 15	\$30,251 42

Amounts brought forward, \$15,586 15 \$30,251 42

Paid for SUNDRIES :

To	Howes & Burnham, for lumber.....	316 16
	A. Keddie, for sawing lumber and repairing tank.....	14 50
	William Kelley & Son, for doors and sash.....	14 75
	J. G. Peabody & Sons, for doors, etc.	9 75
	M. C. Pratt & Co., for lumber, mould- ing and blinds.....	219 09
	C. B. Stevens, for rails, turns, brack- ets, etc.....	7 28
	Whitney & Tibbetts, for lumber and labor.....	139 94
	C. E. Adams, for hardware and lamp.....	119 80
	Corner & Cooper, for stencil.....	1 50
	H. A. Fielding, for hardware.....	41 01
	Rice & Co., for wire cloth and iron guards.....	62 93
	H. B. Shattuck, for hardware.....	39 21
	Frederick Taylor, for hardware.....	163 19
	American Bolt Co., for grates and bolts.....	62 50
	H. R. Barker, for heating apparatus, boiler, pipe, fittings, labor, etc. ..	1,391 79
	James Barris, for bolts, springs, wedges, labor, etc.	48 40
	D. Blackington, for hooks, labor, etc.	3 95
	George L. Cady, for castings, spring and labor.....	81 85
	T. Costello & Co., for pipe, iron, solder, trough, labor, etc.	100 19
	Cole & Nichols, for castings..	3 90
	Chelmsford Foundry Co., for troughs and castings.....	97 70
	John Drew, for blacksmithing.....	5 00
	T. R. Garity, for pipe, fittings, labor, hose, etc.....	327 80
	Albert Hallowell, for composition, labor, etc.....	53 70
	D. Lovejoy & Son, for steel spring,	2 50
	William McLarney, for stove, pipe and labor.....	20 15
	S. G. Mack & Co., for lanterns, globes, trough, copper, ventilator, labor, etc.....	33 03

Amounts carried forward..... \$18,967 72 \$30,251 42

Amounts brought forward, \$18,967 72 \$30,251 42

Paid for SUNDRIES :

To M. O'Flahaven & Co., for pipe, can, labor, etc.	34 30
Richard Patten, for hydrant wrenches,	18 00
Pevey Bros., for castings.	5 78
Enoch Robinson, for hinges.	6 00
H. Sutcliff & Co., for grates.	2 00
N. J. Wier & Co., for stove, labor, etc.	23 34
H. H. Wilder & Co., for galvanized iron, copper, ash hods, labor, etc.,	56 68
D. H. Wilson & Co., for copper pump, pipe, brass castings, etc. . .	68 70
C. Zimmer & Son, for keys and labor,	2 15
Henry Boynton, for cash paid for clipping shears and making sheets,	6 00
H. B. & H. M. Bacon, for badges, buttons, etc.	49 50
T. H. Curtis, for filing saw.	20
H. Racicot, for painting signs.	1 50
G. Thatcher, for cleaning and repair- ing clocks.	2 25
B. Libby, for one-half expense of lightning rods on Engine House on Fourth street.	109 62
H. J. & E. B. Adams, for tables. . .	18 00
Benner Bros., for chairs and feather dusters	25 50
A. H. Gilbert, for frames.	11 00
E. Hapgood & Son, for pillows, hair, ticks and labor.	99 61
Marshall, Crosby & Co., for mat- tresses, pillows, etc.	39 85
Offutt & Whittaker, for comforters. .	8 00
J. F. Puffer & Son, for bedsteads, bedding, etc.	126 30
Tucker Manufacturing Co., for iron bedsteads	15 60
C. F. Blanchard, for chamois skins, sponge and medicine.	8 25
F. H. Butler & Co., for palm oil. . .	1 70
James Boyd & Son, for respirator, soap and sheets.	28 00
Buttrick & Co., for salt, soap, etc. .	14 46
Crowell & Harrison, for horse powders	4 00

Amounts carried forward. \$19,754 01 \$30,251 42

Amounts brought forward..... \$19,754 01 \$30,251 42

Paid for SUNDRIES :

To C. B. Coburn & Co., for rope, oil, brooms, sponge, chamois skins, etc.	96 34
W. D. Cole, for harness oil.....	4 75
H. C. Church, for waste, stationery, etc.	16 15
F. H. Chandler, for rent of building, oil, wicking, etc.....	132 16
Fiske & Spalding, for lead, glass, brushes, cord, signs, etc.	41 83
French & Puffer, for brooms, twine, dusters, pails, brushes and baskets,	38 65
Josiah Gates & Sons, for hose, noz- zles, labor, etc.....	1,257 90
I. K. Goodale, for ginger, vinegar and hops.....	52
J. R. Hayes, for liniment.....	2 80
Cook, Taylor & Co., for blankets, spreads, quilts and netting.....	11 95
J. P. Folsom & Co., for cotton, crash, towels, netting and flannel.....	10 21
H. Hosford & Co., for cotton cloth, flannel, spreads, towels, quilts, comforters and blankets.....	52 11
C. J. H. Judkins, for salt.....	2 00
Jonathan Kendall, for paint, varnish, brushes, shellac and glass.....	28 96
W. E. Livingston, for sand and cement	5 75
George F. Pearson, for polish and jug.....	2 75
G. P. Palmer, for polishing oil and can,	4 00
John Stiles & Co., for ginger.....	30
R. Simpson, for matches and sal soda,	22 76
Middlesex Company, for wool waste,	20 31
Ruel F. Britton, for cash paid ex- penses of committee, postage, gong, indicator, wrench, etc.	170 84
E. S. Hosmer, for cash paid for post- age, making sheets, express, ex- penses of committee, medicine for horse, etc.	16 82
F. P. Coggeshall, for blank book, stationery, etc.	8 10
Coughlin & Co., for blank book....	1 50

Amounts carried forward, \$21,703 47 \$30,251 42

Amounts brought forward..... \$21,703 47 \$30,251 42

Paid for SUNDRIES :

To Marston & Prince, for paper.....	80
Brown & Gove, for fire alarm cards and printing.....	20 25
Huse, Goodwin & Co., for fire alarm cards.....	15 00
C. L. Knapp & Son, for list of boxes,	10 00
Marden & Rowell, for printing.....	3 25
Stone, Bacheller & Livingston, for cards and printing.....	45 25
J. W. Ellis, for taking care of hose carriage in Pawtucketville.....	32 29
C. E. Luscomb, for taking care of hose carriage in Pawtucketville...	5 21
S. D. Butterworth, for mason work,	95 72
E. W. Coburn, for mason work and material	53 01
William H. Easterbrook, for mason work	4 25
F. M. Merrill, for mason work.....	18 25
O'Hearn Bros., for mason work....	1 92
Robert Goulding, for gas pipe, zinc and labor.....	33 70
Wm. E. Livingston, for brick, cement and sand.....	4 20
N. T. Staples & Sons, for drain pipe, etc.....	23 79
S. H. Weaver & Son, for roofing...	14 07
Sweatt & Davis, for labor.....	4 50
E. A. & A. T. Smith, for concrete,	169 10
Lowell Gas Light Co., for gas.....	373 84
Lowell District Telephone Co., for wire and telephone service.....	151 84
Pioneer Telephone Co., for telephone service.....	1 00
Globe Gas Light Co., for lantern and barrel	18 35
H. H. Easterbrook, for buttons and insignias	98 00
Bangor Extension Ladder Co., for ladder	146 25
National Rubber Co., for patrol covers	240 00
American Band, for services at fire- men's parad.....	50 00

Amounts carried forward..... \$23,337 31 \$30,251 42

Amounts brought forward,..... \$23,337 31 \$30,251 42

Paid for SUNDRIES :

To Nichols & Hutchins, for refreshments,	252 00	
John Devine, for damage to sleigh..	2 00	
G. M. Foster, for damage to wagon,	10 00	
W. L. Peabody, for making sheets and pillow cases.....	3 50	
Mrs. R. S. Shaw, for making towels,	4 00	
G. L. Huntoon, for carriage hire...	4 00	
G. W. Norris, for use of horses....	66 00	
George E. Stanley, for carriage hire,	4 00	
F. Boynton, for labor.....	6 00	
E. L. Brown, for labor.....	2 00	
J. E. Coughlan, for labor.....	5 25	
George Farnham, for labor.....	75	
W. H. Halstead, for labor.....	20 25	
A. E. Kidder, for labor.....	75	
C. A. Lord, for labor.....	16 50	
J. P. Merchant, for labor.....	2 00	
Frank Roark, for labor.....	5 25	
John Snell, for labor.....	4 50	
A. B. Smith, for labor.....	1 50	
Richard O'Connell, for labor.....	4 50	
John Ward, for labor.....	87 75	
Snell O. Wade, Jr., for labor.....	3 75	
B. G. Brown, for teaming.....	32 00	
D. P. Knowlton, for teaming.....	6 00	
A. Merrill, for teaming.....	50	
William Roberts, for teaming.....	1 00	
Boston & Lowell Railroad, for trans- portation.....	50	
Boston & Maine Railroad. for trans- portation.....	3 18	
Lovejoy & Co.'s Express, for trans- portation.....	45	
Penniman & Co.'s Express, for trans- portation.....	8 70	
	<hr/>	23,895 89
Whole expenditure for the year.....		\$54,147 31
Balance undrawn January 1, 1881.....		851 25
		<hr/>
		\$54,998 56
		<hr/>

SEWERS AND DRAINS.

Balance undrawn January 1, 1880.....	\$ 476 13	
Appropriated and assessed in 1880.....	60,000 00	
	<hr/>	\$60,476 13

RECEIPTS.

Received into the Treasury on account
of SEWERS AND DRAINS :

IN JANUARY.

From Sarah K. Whipple, for sewer assessment, Lawrence and Agawam streets.....	49 70	
J. W. Reed, for sewer assessment, Swift street.....	11 73	
S. L. Butman, for sewer assessment, Lawson street.....	16 67	
Asa P. Miller, for sewer assessment, Beech street.....	49 75	
Charles H. Burt, for sewer assessment, Beech street.....	13 77	
James McDermott, for sewer assessment, Kinsman street.....	13 28	
Roxanna Peabody, for sewer assessment, High street.....	20 25	
Peter Foley, for sewer assessment, Kinsman street.....	17 35	
Adam Ambrose, for sewer assessment, Sixth street.....	22 63	
Michael Cleary, for sewer assessment, Swift street.....	25 88	
	<hr/>	
<i>Amounts carried forward</i>	\$241 01	\$60,476 13

<i>Amounts brought forward,</i>	\$241 01	\$60,476 13
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN JANUARY.

From John Donohoe, for sewer assessment, Swift street.	12 08
Carlos E. Bohonon, for sewer assessment, Beech street.	24 79
Matilda S. White, for sewer assessment, Grove street.	15 47
Daniel C. Rowell, for sewer assessment, Leroy street.	11 72
George H. Noble, for sewer assessment, Hildreth street.	7 87
George H. Noble, for sewer assessment, Coburn street.	19 08
Appropriation for School-Houses, for sewer assessment, Beech street.	49 21
Ward S. Dudley, for sewer assessment, Grove street.	14 32
Ann Brady, for sewer assesment, Keene street.	11 09
Heirs of Charles Smith, for sewer assessment, McIntire street. . . .	20 34
Hannah O'Gara, for sewer assessment, Swift street.	18 06
Samuel N. Wood, for sewer assessment, Mill street.	26 87
Heirs of Vesta Hutchinson, for sewer assessment, Railroad street,	68 34
Mollahan Bros., for sewer assessment, Agawam street.	38 39
Mollahan Bros., for sewer assessment, Keene street.	10 08
Jeremiah Murphy, for sewer assessment, Swift street.	9 23
Estate of W. P. Webster, for sewer assessment, Beech street,	22 01
Seth B. Hall, for sewer assessment, Sixth street.	20 95
George N. Osgood, for sewer assessment, Westford street.	81 40
George N. Osgood, for sewer assessment, Westford street.	11 85

<i>Amounts carried forward.</i>	\$734 16	\$60,476 13
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<i>Amounts brought forward</i>	\$734 16	\$60,476 13
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN JANUARY.

From Philip McCarthy, for sewer assessment, Lawrence and Agawam streets	\$24 85	
Robert B. Caverly, for sewer assessment, Beech street.....	15 90	
Isaac Barr, for sewer assessment, Beech street.....	29 73	
Charles A. Plastridge, for sewer assessment, Beech street.....	29 73	
George W. Dutton, for sewer assessment, Fairmount street....	20 81	
Edward Donnelly, for sewer assessment, Keene street.....	11 37	
William Knowles, for sewer assessment, Prospect street.....	25 57	
Bridget Brady, for sewer assessment, Keene street.....	19 36	
Mrs. R. Dockam, for sewer assessment, Branch street.....	31 85	
Friend Lord, for sewer assessment, Jewett street.....	25 45	
James Mayne, for sewer assessment, Keene street.....	25 74	
J. Cochran, for sewer assessment, Lawrence and Agawam streets..	24 85	
Merrimack Manufacturing Co., for sewer assessment, River street,	28 88	
James Brady, for sewer assessment, High street.....	16 24	
S. W. Churchill, for sewer assessment, Railroad street.....	34 76	
J. Cronan, for sewer assessment, Swift street.....	36 12	
Elizabeth Loughran, for sewer assessment, Swift street.....	30 61	
Thomas McDonald, for sewer assessment, High street.....	18 84	
	<hr/>	1,184 82

IN FEBRUARY.

From Ann Monahan, for sewer assessment, High street.....	\$10 66	
<i>Amounts carried forward</i> ,.....	<hr/> \$10 66	\$61,660 95

<i>Amounts brought forward,</i>	\$10 66	\$61,660 95
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN FEBRUARY.

From Patrick Monohan, for sewer assessment, High street.....	15 49
Samuel Greenwood, for sewer assessment, Railroad street.....	38 17
James F. Choate, for sewer assessment, Leroy street.....	9 52
Mary J. Stiles, for sewer assessment, Leroy street.....	4 50
E. S. Rand, for sewer assessment, Moody street.....	51 77
Daniel R. Wallace, for sewer assessment, Walker street.....	29 30
Leonard F. Jewell, for sewer assessment, Beech street.....	29 73
James Wallace, for sewer assessment, Jewett street.....	70 81
Estate of William B. Franklin, for sewer assessment, Sixth street..	46 72
Richard Kitson, for sewer assessment, Moody street.....	124 70
Joseph C. Healey, for sewer assessment, Walker street.....	29 30
Joseph Turner, for sewer assessment, High street.....	16 42
John Barrington, for sewer assessment, Lawrence and Agawam streets.....	12 68
John F. Howard, for sewer assessment, Wilder street.....	20 65
Wamesit Power Co., for sewer assessment, Lawrence and Agawam streets.....	108 72
Heirs of D. H. Richardson, for sewer assessment, Walker street	29 30
George A. Marden, for sewer assessment, Fairmount street....	31 72
Elisha Davis, for sewer assessment, Thorndike and Congress streets,	30 61
George H. Taylor, for sewer assessment, Nichols street.....	12 78
Thomas Freeman, for sewer assessment, Prospect street.....	11 10

<i>Amounts carried forward.....</i>	<hr/> \$734 65	<hr/> \$61,660 95
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<i>Amounts brought forward</i>	\$734 65	\$61,660 95
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN FEBRUARY.

From William H. Kimball, for sewer assessment, Branch and Walker streets	31 21
William H. Kimball, for sewer assessment, Grove street.....	13 40
Heirs of John Buttermore, for sewer assessment, Lawrence and Agawam streets.....	24 85
Sylvester Bean, for sewer assessment, Sixth street.....	22 91
Heirs of Ziba Abbott, for sewer assessment, River street.....	5 70
Joseph Howarth, for sewer assessment, Prospect street.....	14 01
Joseph Howarth, for sewer assessment, Prospect street.....	26 90
Michael Reed, for sewer assessment, Coburn street.....	25 00
Dennis Sheridan, for sewer assessment, Swift street.....	10 97
Henry C. Pike, for sewer assessment, Beech street.....	12 30
Alfred T. Cates, for sewer assessment, Beech street.....	26 15
Heirs of L. J. Eames, for sewer assessment, Branch and Walker streets	100 64
Hibbert T. Bowen, for sewer assessment, Jewett street.....	20 10
Abraham Gillard, for sewer assessment, Beech street.....	17 48
Caleb Philbrick, for sewer assessment, Walker street.....	82 03
Cortis N. Rice, for sewer assessment, Westford street.....	41 66
George F. Richardson, for sewer assessment, Nesmith street....	57 63
George F. Richardson, for sewer assessment, Nesmith and Fairmount streets.....	90 73
George F. Richardson, for sewer assessment, Nesmith and Fairmount streets.....	100 64

<i>Amounts carried forward</i>	\$1,458 96	\$61,660 95
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<i>Amounts brought forward</i>	\$1,458 96	\$61,660 95
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN FEBRUARY.

From Daniel S. Richardson, for sewer assessment, Nesmith and Fair- mount streets.....	90 37	
Daniel S. Richardson, for sewer assessment, Nesmith and Fair- mount streets.....	152 02	
Daniel S. Richardson, for sewer assessment, Wyman street.....	21 44	
Emery W. Lovejoy, for sewer as- sessment, Wilder street.....	15 70	
James McNamara, for sewer as- sessment, Fenwick street.....	40 69	
C. O. Davis, for sewer assessment, Lawson street.....	7 92	
Micah Hamer, for sewer assess- ment, High street.....	10 92	
Heirs of Michael Gray, for sewer assessment, Kinsman street....	31 99	
Heirs of John Nesmith, for sewer assessment, Talbot street.....	22 69	
Heirs of John Nesmith, for sewer assessment, Wyman street.....	32 20	
Aurinda C. Moore, for sewer as- sessment, Lawrence and Aga- wam streets.....	24 85	
William P. Edwards, for sewer assessment, Porter street.....	47 50	
George W. Young, for sewer as- sessment; Middlesex and Branch streets.....	142 10	
John F. Manahan, for sewer asess- ment, Walker street.....	21 71	
Dennis McCluskey, for sewer as- sessment, Lawrence and Aga- wam streets.....	49 70	
	<hr/>	2,170 76

IN MARCH.

From L. W. Walton, for entering Fourth- street sewer.....	13 38	
Peter Gray, for sewer assessment, Swift street.....	15 43	
	<hr/>	
<i>Amounts carried forward</i> ,.....	\$28 81	\$63,831 71

<i>Amounts brought forward,</i>	\$28 81	\$63,831 71
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN MARCH.

From Patrick F. Brady, for sewer assessment, Keene street.....	9 56
Michael McLaughlin, for sewer assessment, High street.....	28 52
Edward Short, for sewer assessment, Keene street.....	11 75
N. J. K. Patch, for sewer assessment, Walker street.....	29 30
Heirs of Ira Spalding, for sewer assessment, Mill street.....	31 48
James M. Willard, for sewer assessment, Leroy street.....	18 03
William S. McBrayne, for sewer assessment, Beech street.....	27 16
Estate of George W. Baker, for sewer assessment, Sixth street..	45 82
O. E. D. Richardson, for sewer assessment, Hildreth street.....	78 38
Francis Carll, for sewer assessment, Walker street.....	35 13
Heirs of P. S. Smith, for sewer assessment, Lawrence and Agawam streets.....	24 85
Heirs of P. S. Smith, for sewer assessment, Lawrence and Agawam streets.....	49 70
Heirs of P. S. Smith, for sewer assessment, Lawrence and Agawam streets.....	49 70
Lowell Manufacturing Co., for sewer assessment, Moody street,	111 57
John Griffin, for sewer assessment, Lawrence and Agawam streets,	24 85
Carl T. Greenard, for sewer assessment, Jewett street.....	25 45
E. T. Savage, for sewer assessment, Branch and Walker streets,	31 85
John Coughlin, for sewer assessment, Lawrence and Agawam streets.....	24 85
Bridget O'Connell, for sewer assessment, River street.....	9 43

<i>Amounts carried forward,</i>	<hr/> \$696 19	<hr/> \$63,831 71
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<i>Amounts brought forward</i> ,.....	\$696 19	\$63,831 71
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN MARCH.

From Thomas Brennan, for sewer assess- ment, River street.....	9 43
Robert Booth, for sewer assess- ment, Branch and Walker streets,	57 33
C. B. Snyder & Co., for sewer as- sessment, Lawrence and Aga- wam streets.....	67 10
F. T. Thissell, for sewer assess- ment, Sixth street.....	24 14
William Harris, for sewer assess- ment, Jewett street.....	50 89
Patrick Mooney, for sewer assess- ment, Lawrence and Agawam streets	24 85
Patrick Maloney, for sewer assess- ment, Swift street.....	44 16
Michael Fagan, for sewer assess- ment, Lawrence and Agawam streets.....	49 71
Jeremiah Wrenn, for sewer assess- ment, Lawrence and Agawam streets	24 85
John S. D'Evelyn, for sewer assess- ment, Sixth street.....	53 17
House of Prayer, for sewer assess- ment, Walker street.....	36 68
Elbridge G. Parker, for sewer as- sessment, Lawrence and Agawam streets	99 40
Thomas Finnick, for sewer assess- ment, Keene street.....	14 39
Patrick F. Brady, for sewer assess- ment, Keene street.....	6 90
George H. Ames, for sewer assess- ment, Branch and Walker streets,	43 69
Charles Dulligan, for sewer assess- ment, Lawrence and Agawam streets	24 85
Gilman Kimball, for sewer assess- ment, Moody street.....	52 10
H. F. Durant, for sewer assess- ment, Keene street.....	47 80

<i>Amounts carried forward</i>	<hr/> \$1,427 63	<hr/> \$63,831 71
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Amounts brought forward..... \$1,427 63 \$63,831 71

Received into the Treasury on account
of SEWERS AND DRAINS :

IN MARCH.

From Margaret McMahan, for sewer assessment, Prospect street.....	7 41	
Heirs of Martha Fisher, for sewer assessment, Walker street.....	20 00	
Daniel Mehan, for sewer assessment, Lawrence and Agawam streets.....	24 85	
John Griffin, for sewer assessment, Prospect street.....	16 15	
Mrs. Caroline B. Varnum, for sewer assessment, Sixth street,	22 91	
	<hr/>	1,518 95

IN APRIL.

From Sumner A. Byam, for sewer assessment, Walker street.....	16 06	
Stephen McMonagle, for sewer assessment, Jewett street.....	61 07	
Stephen McMonagle, for sewer assessment, Jewett street.....	61 07	
William W. Sargent, for sewer assessment, Sixth street.....	20 95	
Patrick Crowe, for sewer assessment, Lawrence and Agawam streets.....	24 85	
Alexander Hastings, for sewer assessment, Jewett street.....	25 45	
W. S. Littlehale, for sewer assessment, Fairmount street.....	22 52	
Charles D. Starbird, for sewer assessment, Westford street.....	55 84	
Sybella W. Eastman, for sewer assessment, Jewett street.....	30 52	
Cynthia Haggett, for sewer assessment, High street.....	40 54	
Richard Cuff, for sewer assessment, Lawrence and Agawam streets.....	24 85	
Orrin B. Silver, for sewer assessment, Fairmount street.....	33 83	
B. F. Simpson, for sewer assessment, Beech street.....	24 35	
	<hr/>	
<i>Amounts carried forward</i>	\$441 90	\$65,350 66

<i>Amounts brought forward</i> ,.....	\$441 90	\$65,350 66
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN APRIL.

From Achsah Burpee, for sewer assessment, Jewett street.....	25 45
F. T. Wilson, for sewer assessment, Dover street.....	18 04
James F. Puffer, for sewer assessment, Jewett street.....	50 89
Timothy Sullivan, for sewer assessment, Lawrence and Agawam streets.....	24 85
Timothy Sullivan, for sewer assessment, Lawrence and Agawam streets.....	24 85
F. H. Wood, for sewer assessment, Centre street.....	13 86
Margaret Noonan, for sewer assessment, Mill street.....	30 37
Joshua Varnum, for sewer assessment, River street.....	10 76
B. F. Simpson, for sewer assessment, Westford street.....	111 98
Bridget Kelley, for sewer assessment, Lawrence and Agawam streets.....	49 70.
E. L. Cardell, for sewer assessment, Somerset street.....	5 52
Estate of G. W. Baker, for sewer assessment, Sixth street.....	41 23
Charles C. Coburn, for sewer assessment, Beech street.....	26 15
Estate of F. A. Hildreth, for sewer assessment, Beech street.....	30 02
Timothy Sullivan, for sewer assessment, Lawrence and Agawam streets.....	24 85
Timothy Sullivan, for sewer assessment, Lawrence and Agawam streets.....	24 85
Albion C. Taylor, for sewer assessment, Fairmount street....	42 29
John L. Shay, for sewer assessment, Beech street.....	30 22

<i>Amounts carried forward</i>	\$1,027 78	\$65,350 66
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Amounts brought forward..... \$1,027 78 \$65,350 66

Received into the Treasury on account
of SEWERS AND DRAINS :

IN APRIL.

From John J. Donovan, for sewer assessment, Centre street.....	16 08	
Hepsibeth Wright, for sewer assessment, Centre street.....	12 14	
Versil Roby, for sewer assessment, Westford street.....	105 08	
Stephen McMonagle, for sewer assessment, Jewett street.....	42 75	
Wm. H. Smith, for sewer assessment, Grove street,.....	41 15	
S. H. Ladd, for remote drainage, School street.....	20 00	
Charles Hovey, for remote drainage, East Merrimack street....	20 00	
Mrs. E. N. Fellows, for remote drainage, West Adams street..	15 00	
	<hr/>	1,299 98

IN MAY.

From Alpheus R. Brown, for sewer assessment, Sixth street.....	71 61	
George B. Farnham, for sewer assessment, Leroy street.....	11 89	
H. H. Johnson, for sewer assessment, Somerset street.....	3 21	
H. H. Johnson, for sewer assessment, Lawson street.....	3 10	
Sarah H. Cahill, for sewer assessment, Beech street.....	24 17	
Thomas Curtis, for sewer assessment, Porter street.....	73 81	
A. T. Smith, for sewer assessment, Dover street.....	18 04	
A. T. Smith, for sewer assessment, Dover street.....	18 04	
Heirs of Isaac Scripture, for sewer assessment, Centre street.....	38 15	
James Carr, for sewer assessment, Keene street.....	8 18	
Odnathus Simpson, for sewer assessment, Sixth street.....	57 86	
	<hr/>	
<i>Amounts carried forward</i> ,.....	\$328 06	\$66,650 64

<i>Amounts brought forward</i>	\$328 06	\$66,650 64
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN MAY.

From George J. Carney, for sewer assessment, Moody street.....	81 15	
Charles H. Richardson, for sewer assessment, Hildreth street....	50 53	
George S. Cheney, for sewer assessment, Moody street.....	61 81	
Charles Hemmenway, for sewer assessment, Sixth street.....	14 05	
J. M. G. Parker, for sewer assessment, River street.....	9 44	
Charles Stott, for sewer assessment, High street.....	19 56	
A. C. Wheelock, for sewer assessment, Keene street.....	14 12	
John M. Richardson, for sewer assessment, Jewett street.....	59 53	
I. Sumner Richardson, for sewer assessment, Hildreth street....	124 03	
I. Sumner Richardson, for sewer assessment, Jewett street.....	25 45	
Thorndike Manufacturing Co., for sewer assessment, Thorndike and Congress streets.....	52 34	
Smith Adams, for entering sewer in West Adams street.....	15 00	
A. L. Ready, for old iron.....	5 10	
Appropriation for Fire Department, for sundries.....	3 75	
	<hr/>	863 92

IN JUNE.

From Stephen B. Puffer, for sewer assessment, Hildreth street.....	\$53 50	
B. F. Heald, for sewer assessment, Beech street.....	9 73	
Trustees of Thomas Nesmith, for sewer assessment, Fairmount street.....	161 75	
Thomas Nesmith, for sewer assessment, Fairmount street.....	104 45	
C. S. Dodge, for sewer assessment, Walker street.....	35 15	
	<hr/>	
<i>Amounts carried forward</i> ,	\$364 58	\$67,514 56

<i>Amounts brought forward</i> ,.....	\$364 58	\$67,514 56
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN JUNE.

From B. F. Simpson, for sewer assess- ment, Porter street.....	143 01	
John H. Prescott, for sewer assess- ment, Grove street.....	26 61	
Josiah Gates, for entering sewer in Westford street.....	20 00	
Hugh Morrow, for entering sewer in South street.....	20 00	
	<hr/>	574 20

IN JULY.

From Henry Barnes, for sewer assess- ment, High street.....	\$26 51	
Albert Hamblett, for sewer assess- ment, Beech street.....	23 77	
Elbridge Dearborn, for entering sewer, Westford street.....	40 00	
Estate of Fanny Smith, for entering sewer, School street.....	25 00	
	<hr/>	115 28

IN AUGUST.

From Thomas Carolin, for sewer assesss- ment, High street.....	\$15 67	
Michael Boyle, for sewer assess- ment, River street.....	9 82	
George Naylor, for sewer assess- ment, Fairmount street.....	39 33	
	<hr/>	64 82

IN SEPTEMBER.

From Nathan Crosby, for sewer assess- ment, Fairmount street.....	\$22 20	
Moses G. Howe, for sewer assess- ment, Beech street.....	51 86	
Kate McNamara, for sewer assess- ment, Lawrence and Agawam streets.....	49 70	
Thomas H. Elliott, for sewer as- sessment, Porter street.....	22 50	
Abby Woodward, for sewer assess- ment, Howard street.....	33 33	
	<hr/>	
<i>Amounts carried forward</i>	\$179 59	\$68,268 86

<i>Amounts brought forward</i> ,.....	\$179 59	\$68,268 86
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN SEPTEMBER.

From George Runels, for sewer assessment, Thorndike and Congress streets	23 11	
Ann Conihe, for sewer assessment, Bowers street.....	16 67	
L. E. Shepard, for sewer assessment, High street.....	15 52	
L. E. Shepard, for sewer assessment, High street.....	61 28	
Estate of John E. Crane, for sewer assessment, Sixth street.....	21 08	
Levi Nichols, for sewer assessment, Westford street.....	56 28	
Mrs. E. F. Sherman, for sewer assessment, Mount Vernon street,	17 19	
Bruce Heirs, for sewer assessment, Mount Vernon street.....	52 88	
Heirs of John McEvoy, for sewer assessment. Lawrence and Agawam streets.....	54 17	
David McNair, for sewer assessment, Mount Vernon street....	25 56	
William Parr, for sewer assessment, Schoolstreet.....	7 25	
Alfred Barney, for sewer assessment, Howard street.....	41 92	
C. C. Pickering, for sewer assessment, Howard street.....	36 54	
George P. Walker, for entering sewer in West Adams street...	25 00	
Appropriation for School-Houses, for sundries.....	24 75	
Lowell Horse Railroad, for labor, etc.	2 00	
	<hr/>	660 79

IN OCTOBER.

From Samuel C. Eaton, for sewer assessment, Howard street.....	\$32 43	
V. L. Wilson, for sewer assessment, School street.....	14 50	
<i>Amounts carried forward</i> ,.....	<hr/> \$46 93	<hr/> \$68,929 65

<i>Amounts brought forward,</i>	\$46 93	\$68,929 65
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN OCTOBER.

From Francis Carll, for sewer assessment, School street.....	13 60	
Edward B. Bruce, for sewer assessment, Bowers street.....	36 45	
John D. Hubbard, for sewer assessment, Porter street.....	44 67	
Edward Ripley, for sewer assessment, Mount Vernon street....	21 75	
Maurice Kearney, for sewer assessment, Andrews street.....	15 61	
Sophronia Sprague, for sewer assessment, Howard street.....	28 90	
Michael Hunt, for sewer assessment, Pollard street.....	41 89	
Charles F. Belden, for sewer assessment, Mount Vernon street....	28 39	
William C. Haslam, for sewer assessment, Lyon street.....	16 70	
Richard Tiffany, for sewer assessment, Lyon street.....	15 02	
Patrick Breen, for sewer assessment, Lyon street.....	5 84	
Estate of P. J. Devine, for sewer assessment, Whipple street....	18 57	
Michael Collins, for sewer assessment, Andrews street.....	23 42	
Charles D. Starbird, for remote drainage, Adams street.....	15 00	
Samuel C. Eaton, for remote drainage, Howard street.....	20 00	
	<hr/>	392 74

IN NOVEMBER.

From Appropriation for School-Houses, for sewer assessment, Howard street.....	59 25	
Appropriation for School-Houses, for sewer assessment, Lyon street	3 40	
Heirs of Vesta Hutchinson, for sewer assessment, Howard street	33 44	
Wm. E. Livingston, for sewer assessment, Bowers street.....	82 15	
	<hr/>	
<i>Amounts carried forward,</i>	\$178 24	\$69,322 39

<i>Amounts brought forward.....</i>	\$178 24	\$69,322 39
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN NOVEMBER.

From Warren Aldrich, for sewer assess- ment, Railroad street.....	34 76
Charles H. Marble, for sewer assess- ment, Bowers street.....	21 78
S. K. Dexter, for sewer assess- ment, Pollard street.....	29 62
S. P. Sargent, for sewer assess- ment, Middlesex and Branch street.....	152 90
Jesse N. Bassett, for sewer assess- ment, Whipple street.....	6 86
Abby P. White, for sewer assess- ment, Howard street.....	32 43
John E. Kennedy, for sewer assess- ment, Austin street.....	65 00
Rufus Rogers, for washing out sewer.....	3 00

524 59

IN DECEMBER.

From Heirs of Jemima Coburn, for sewer assessment, Howard street.....	\$ 76 75
Heirs of Jemima Coburn, for sewer assessment, Howard street.....	101 33
Danville Cole, for sewer assessment, Mount Vernon street.....	27 12
Ralph Butterfield, for sewer assess- ment, Howard street.....	43 24
William P. Clark, for sewer assess- ment, Fifth street.....	26 02
Mary Gordon, for sewer assess- ment, School street.....	33 15
Edward T. Rowell, for sewer as- sessment, Eighth street.....	16 04
Edward Cawley, for sewer assess- ment, Lyon street.....	24 88
Rollins & Sargent, for sewer as- sessment, Pollard street.....	16 82
Appropriation for School-Houses, for sewer assessment, Fayette street.....	37 07
Heirs of G. J. Bradt, for sewer as- sessment, Fletcher street.....	92 69

<i>Amounts carried forward,.....</i>	\$495 11	\$69,846 98
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<i>Amounts brought forward.....</i>	\$495 11	\$69,846 98
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN DECEMBER.

From David Bradt, for sewer assessment, Fletcher street.....	26 78	
J. M. Pearson, for sewer assess- ment, Mount Vernon street....	3 80	
Heirs of Sarah Collings, for sewer assessment, Lyon street.....	10 51	
William T. Fuller, for sewer as- sessment, Walker street.....	51 52	
Margaret Conlan, for sewer assess- ment, Lyon street.....	14 86	
Wamesit Power Co., for sewer as- sessment, Andrews street.....	15 61	
Wamesit Power Co., for sewer as- sessment, Andrews street.....	17 16	
Wamesit Power Co., for sewer as- sessment, Andrews street.....	39 03	
Wamesit Power Co., for sewer as- sessment, Andrews street.....	112 24	
Wamesit Power Co., for sewer as- sessment, Whipple street.....	51 39	
Wamesit Power Co., for sewer as- sessment, Whipple street.....	68 29	
William Whitworth, for sewer as- sessment, Lyon street.....	18 25	
Eliza Brown, for sewer assess- ment, Fayette street.....	42 84	
Joanna Webster, for sewer assess- ment, Fifth street.....	10 80	
Sarah A. Tibbetts, for sewer as- sessment, Tenth street.....	51 80	
Amelia Danforth, for sewer assess- ment, Mount Vernon street....	25 05	
James Casey, for sewer assess- ment, West Third street.....	14 45	
John Monaghan, for sewer assess- ment, Whipple street.....	39 46	
Harriet Clark, for sewer assess- ment, Howard street.....	36 03	
Amos F. Crockett, for sewer as- sessment, Whipple street.....	70 92	
Stanley S. Coe, for sewer assess- ment, Howard street.....	49 13	
<i>Amounts carried forward,.....</i>	<hr/> \$1,265 03	<hr/> \$69,846 98

<i>Amounts brought forward</i>	\$1,265 03	\$69,846 98
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN DECEMBER.

From Peter Lawson, for sewer assess- ment, Mount Vernon street....	37 64	
Peter Lawson, for sewer assess- ment, Mount Vernon street....	154 66	
Peter Lawson, for sewer assess- ment, Mount Vernon street....	40 30	
Appropriation for School-Houses, for sewer assessment, Tenth street.....	16 86	
Appropriation for School-Houses, for sundries.....	2 25	
Arthur Staples, for blue stone....	6 50	
	<hr/>	1,523 24
		<hr/>
		<u>\$71,370 22</u>

EXPENDITURES.

Paid for LABOR AS PER MONTHLY
PAY-ROLLS:

In January.....	\$ 542 26	
February.....	368 69	
March.....	2,152 01	
April.....	3,833 55	
May.....	4,521 26	
June.....	4,473 75	
July.....	4,350 05	
August.....	4,463 00	
September.....	4,396 40	
October.....	4,686 11	
November.....	2,925 62	
December.....	295 07	
	<hr/>	37,007 77

Paid for DAMAGES AND ABATE-
MENTS:

To Smith Adams, for damage caused by construction of marginal sewer...	\$300 00
W. R. Bachelder, administrator, for damage to building.....	7 50
	<hr/>

<i>Amounts carried forward</i> ,.....	\$307 50	\$37,007 77
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<i>Amounts brought forward</i> ,	\$307 50	\$37,007 77
Paid for DAMAGES AND ABATEMENTS:		
To W. F. Downing, for damage to property on Middlesex street.	75 00	
Joseph P. Garland, for damage caused by construction of marginal sewer,	400 00	
Joseph P. Garland, for damage to barn and 3,084 square feet of land taken in the construction of Marginal and Stevens street.	600 00	
George F. Lawton, for cash paid witness fees in the case of Saunders vs. City.	10 75	
Levi Nichols, for damage caused by construction of Westford and Loring street sewer.	25 00	
Joseph A. Patten, for damage caused by construction of Myrtle street sewer.	300 00	
Stephen P. Sargent, attorney, for damage caused by the construction of marginal sewer.	600 00	
Julia Williams, for right to lay a sewer from Pawtucket street to the Merimack river, through her land.	150 00	
William P. Clark, for amount abated on assessment, for a sewer in Fifth street.	26 02	
S. K. Dexter, for amount paid for remote drainage in 1869.	20 00	
William H. Smith, for overcharge in assessment for sewer in Grove street.	2 59	
G. P. Walker, for amount paid for remote drainage on West Adams street.	25 00	
Joanna Webster, for amount abated on assessment for a sewer in Fifth street.	10 80	
	<hr/>	2,552 66
Paid for PIPE, BRICK, STONE, CEMENT, IRON, LUMBER, ETC.:		
To Appropriation for Water Works, for pipe, etc.	\$138 70	
<i>Amounts carried forward</i> ,	<hr/> \$138 70	<hr/> \$39,560 43

Amounts brought forward, \$138 70 \$39,560 43

Paid for PIPE, BRICK, STONE,
CEMENT, IRON, LUMBER,
ETC. :

To S. G. Mack & Co., for iron pipe...	22 20	
N. T. Staples & Sons, for pipe, brick and labor.....	3,009 60	
Staples Bros., for pipe and brick...	7,904 56	
Brown & Bunker, for brick.....	763 17	
Stephen B. Puffer, for brick.....	879 12	
George Runels, for brick.....	32 00	
George S. Rundlett, for brick.....	158 89	
L. F. Kittredge, for cement and teaming.....	396 00	
Wm. E. Livingston, for cement and coal.....	1,864 51	
J. C. Bachelder, for labor on lumber,	13	
Davis & Sargent, for lumber.....	244 52	
Howes & Burnham, for lumber.....	69 35	
M. C. Pratt & Co., for lumber and labor.....	5 17	
Whitney & Tibbetts, for lumber....	731 16	
H. W. Clapp & Co., for sewer caps, traps and flanges.....	144 00	
Frank P. Hill & Co., for iron, steel, etc.....	102 38	
Cole & Nichols, for castings.....	3,050 06	
Pevey Bros., for manholes, stops and caps.....	102 51	
E. A. & A. T. Smith, for repairing concrete.....	4 50	
Penniman & Co's Express, for trans- portation.....	1 50	
Nashua & Lowell Railroad Co., for transportation.....	542 85	
Old Colony Railroad Co., for trans- portation.....	26 60	
Middleburgh Blue Stone Co., for catch basins.....	129 40	
		20,322 88

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for labor, keeping horse, use of cart, sand and one-half cost of wagon.....	\$2,082 12	
<i>Amounts carried forward</i>	\$2,082 12	\$59,883 31

Amounts brought forward,..... \$2,082 12 \$59,883 31

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for services of Superintendent of Streets, for 1880.....	800 00
Appropriation for Roads and Bridges, for services of City Engineer for 1880	293 00
Appropriation for Fire Department, for horse and use of steamer and hose.....	235 00
Appropriation for Lighting, for lan- tern and frame.....	7 00
Appropriation for Water Works, for use of water for 1879 and 1880...	642 05
Charles E. Adams, for hardware, tools, etc.....	231 31
Sager Ashworth & Co., for files.....	2 05
John C. Bennett, for pick handles and pails.....	9 61
Dodge, Gilbert & Co., for forge....	34 00
H. A. Fielding, for hardware and tools	186 35
Horace B. Shattuck, for hardware and tools.....	27 84
Frederick Taylor, for hardware and tools	88 08
H. R. Barker, for labor, etc.....	5 60
Cook, Rynes & Co., for iron rammer,	8 50
S. G. Mack & Co., for pipe, pail, iron, solder and labor.....	8 25
William Rogers, for repairing forges, etc.	42 18
Rice & Co., for wire.....	48
H. H. Wilder & Co., for sewer pump, jets, can, dippers, tunnel, etc.....	40 65
Milton Aldrich, for turning mauls..	9 45
T. H. Curtis, for filing saws, etc....	1 05
John Drew, for sharpening picks....	3 20
C. T. Haskell, for filing saws.....	5 16
J. H. Haskell, for filing saws.....	6 29
George M. Mowbray, for repairing battery	7 35
O. A. Simpson, for sharpening tools,	75
H. Sutcliff & Co., for filing saws....	60
G. W. Wilson, for repairing tools..	5 78
John B. Palmer, for pick handles...	10 00

Amounts carried forward..... \$4,793 70 \$59,883 31

<i>Amounts brought forward.....</i>	\$4,793 70	\$59,883 31
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Paid for SUNDRIES :

To S. L. Butman, for harness.....	50 00
J. B. Goodwin, for rubber boots....	5 00
M. C. Huntoon, for rubber boots...	12 00
Hapgood Wright, for rubber boots..	28 50
E. Hapgood & Son, for mattress and comforter	4 50
C. B. Coburn & Co., for pails, rope, lanterns, hose, couplings, rosin, oils, etc.	49 86
F. H. Chandler, for oil and oatmeal,	13 65
Fiske & Spalding, for colors.....	1 08
J. Gates & Sons, for belting, valves, and couplings.....	5 71
I. K. Goodale, for oil.....	2 76
Greenwood Bros., for brooms and pails	2 15
Thomas Head, for canvas, waste, bagging and rope.....	34 56
W. A. Ingham & Co., for oil, wick- ing and oatmeal.....	7 79
C. J. H. Judkins, for oil and can...	1 44
Kearney & O'Donnell, for oil, wicks and oatmeal.....	5 83
Jonathan Kendall, for oil, borax and glass	3 47
A. L. Kittredge, for glass.....	30
Miller Bros., for oatmeal.....	24
Nichols & Fletcher, for powder, fuse, exploders, dualin and oatmeal....	1,021 82
M. J. Noonan, for oil, matches and pails.....	4 24
Estate of Robert Park, for old rope..	22 80
Peter Quinn, for oil, wicks and matches.....	7 47
J. B. Richardson, for oil, salt, match- es and oatmeal.....	5 28
R. K. Runals, for oatmeal.....	55
Stickney & Spofford, for oil, wicks, matches and globe.....	4 94
Stiles, Rogers & Co., for oatmeal...	6 00
United States Cartridge Co., for powder	5 00
Darius Whithed, for oil, salt and matches	7 25
Buff & Berger, for spirit level.....	5 00

<i>Amounts carried forward,</i>	\$6,112 89	\$59,883 31
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Amounts brought forward..... \$6,112 89 \$59,883 31

Paid for SUNDRIES :

To George H. Sampson, for repairing battery	25 00	
George E. Evans, for cash paid for lithogram, postal cards, express, sponge, repairing instrument, etc.,	6 95	
John C. Woodward, for cash paid for travelling expenses of committee, etc.	57 72	
E. A. & A. T. Smith, for concrete..	71 45	
F. P. Coggeshall, for stationery....	16 75	
J. Merrill & Son, for blank book, paper and ink.....	4 00	
A. Whitney, for blank book.....	70	
Bachelor, Dumas & Co., for blank books	14 50	
Brown & Gove, for printing.....	2 25	
Boston Daily Advertiser, for advertising.....	10 50	
Campbell & Hanscom, for advertising,	5 00	
C. L. Knapp & Son, for advertising,	5 50	
Marden & Rowell, for advertising..	4 00	
Stone, Bachelor & Livingston, for advertising	4 00	
Nichols & Hutchins, for refreshments,	12 45	
E. J. Noyes, for horse.....	300 00	
E. H. Morse, for use of carriage, etc.	6 00	
Mrs. P. McGuirk, for use of team..	4 50	
B. G. Brown, for teaming.....	4 00	
Lowell Gas Light Co., for pipe, cement, labor, etc.....	64 66	
George W. Flint, for repairing sewer on Somerset street.....	15 00	
N. W. Norcross, for repairing wood paving on Bridge street.....	24 00	
George L. Moulton, for labor.....	16 50	
Benjamin Benoit, for professional services	150 00	
P. Larochelle, for professional services	3 00	
		6,941 32
Paid George W. Young, as per resolution,		100 00
Whole expenditure for the year.....		\$66,924 63
Balance undrawn January 1, 1881.....		4,445 59
		<u>\$71,370 22</u>

COMMONS.

Balance undrawn January 1, 1880.....	\$354 36	
Appropriated and assessed in 1880.....	1,800 00	
	<hr/>	\$2,154 36

RECEIPTS

Received into the Treasury on account
of COMMONS :

From S. A. McPhetres, City Clerk, for rent of grounds.....	\$214 00	
Appropriation for School-Houses, for sundries.....	12 50	
	<hr/>	226 50
		<hr/>
		\$2,380 86
Transferred from Reserved Fund.....		200 00
		<hr/>
		\$2,580 86
		<hr/> <hr/>

EXPENDITURES.

Paid for FLAG-STAFF ON NORTH
COMMON :

To Appropriation for Roads and Bridges, for blacksmithing.....	\$ 5 65
Appropriation for Public Buildings, for labor.....	99 37
Howes & Burnham, for lumber.....	150 00
A. Lake, for lumber and labor.....	3 25
L. F. Kittredge, for labor.....	15 75
	<hr/>
<i>Amount carried forward,</i>	\$274 02

Amount brought forward, \$274 02

Paid for FLAG-STAFF ON NORTH
COMMON :

To S. G. Mack & Co., for galvanized iron	1 50
Edwin Lamson, for expense of Committee to Boston.....	4 35
B. G. Brown, for teaming.....	10 00
James Cowell, for teaming.....	2 00

\$291 87

Paid for BAND-STAND ON SOUTH
COMMON :

To Appropriation for School-Houses, for lumber, nails, paint, etc.....	31 74
Appropriation for Public Buildings, for labor.....	113 10
A. L. Brooks & Co., for lumber....	2 90
Howes & Burnham, for lumber.....	14 20
A. Lake, for lumber and labor.....	5 75
M. C. Pratt & Co., for lumber.....	207 83
American Bolt Co., for bolts.....	2 90
C. E. Adams, for hardware.....	14 35
Frederick Taylor, for nails.....	52
T. R. Garity, for pipe, gas fixtures, chandelier and labor.....	60 16
C. B. Coburn & Co., for paint, brushes and oil.....	4 60
Fiske & Spalding, for beach sand...	75
L. G. Howe, for expense in obtaining plan.....	1 60
D. P. Knowlton, for teaming.....	50
J. C. Little, for teaming.....	1 50

462 40

Paid for SUNDRIES :

To Appropriation for School-Houses, for lead, oil and paint.....	\$ 56 15
Appropriation for Roads and Bridges, for manure, use of cart, labor, etc.	318 97
Appropriation for Fire Department, for labor.....	50
Appropriation for Public Buildings, for paint and labor.....	191 81
Appropriation for Water Works, for use of water.....	239 32

Amounts carried forward..... \$806 75

\$754 27

<i>Amounts brought forward</i> ,.....	\$806 75	\$754 27
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Paid for SUNDRIES :

To	Howes & Burnham, for lumber.....	79 68	
	Whitney & Tibbets, for lumber.....	12 81	
	C. E. Adams, for lantern, globes, brooms and hardware.....	22 03	
	Frederick Taylor, for rake, chalk, screws, lawn mower, rope, etc....	32 79	
	H. R. Barker, for repairing iron, pipe, brass, patterns, etc.	15 77	
	T. R. Garity, for labor.....	1 50	
	S. G. Mack & Co., for galvanized iron and labor	1 27	
	D. Lovejoy & Son, for repairing mowing machine.....	7 00	
	C. B. Relyea, for shafts.....	1 75	
	A. L. Wright, for repairing mowing machine	30 24	
	C. B. Coburn & Co., for japan and paint.....	5 20	
	Fiske & Spalding, for oil, paint and brushes	25 13	
	Jonathan Kendall, for oil, japan and brushes	10 26	
	E. A. & A. T. Smith, for concrete..	50 46	
	Peter W. Brown, for labor, etc....	677 47	
	D. P. Knowlton, for teaming.....	4 50	
	D. McCarthy, for teaming.....	50	
	William Roberts, for teaming.....	1 00	
			1,786 11
			<hr/>
Whole expenditure for the year		\$2,540 38	
Balance undrawn January 1, 1881.....		40 48	
			<hr/>
		\$2,580 86	<hr/>

PRINTING AND ADVERTISING.

Balance undrawn January 1, 1880.....	\$ 278 10	
Appropriated and assessed in 1880.....	3,000 00	
	<hr/>	<u>\$3,278 10</u>

EXPENDITURES.

Paid for PRINTING, ADVERTISING, BINDING, ETC. :

To Appropriation for Water Works, for 400 copies of the Annual Report of the Lowell Water Board.....	\$ 54 40
Brown & Gove, for postal cards and printing.....	135 00
L. Brown & Co., for printing.....	10 50
Bacheller, Dumas & Co., for printing, binding, etc.....	50 00
Campbell & Hanscom, for printing, and advertising.....	790 49
Huse, Goodwin & Co., for printing and advertising.....	571 56
Harrington Bros., for printing and advertising.....	8 20
C. L. Knapp & Son, for printing and advertising.....	462 36
Lowell Morning Times, for printing and advertising.....	26 75
Lowell Weekly Sun, for printing and advertising.....	38 00
	<hr/>
<i>Amount carried forward,</i>	\$2,147 26

Amount brought forward..... \$2,147 26

Paid for PRINTING, ADVERTISING, BINDING, ETC.:

To Marden & Rowell, for printing and advertising	472 66
Sampson, Davenport & Co., for maps of the City of Lowell.....	34 50
Stone, Bacheller & Livingston, for printing and advertising.....	475 05
W. S. Simons, for posting.....	56 25

Whole expenditure for the year.....	\$3,185 72
Balance undrawn January 1, 1881.....	92 38

\$3,278 10

LIGHTING STREETS AND PUBLIC BUILDINGS.

Balance undrawn January 1, 1880.....	\$ 2,320 37	
Appropriated and assessed in 1880.....	17,000 00	
	\$19,320 37	

RECEIPTS.

Received into the Treasury on account
of LIGHTING :

From Appropriation for Roads and Bridges, for horse, etc.....	\$207 11	
Appropriation for Sewers and Drains, for sundries.....	7 00	
Boston and Lowell Railroad, for moving lamp post.....	9 00	
Gilbert & Barker Manufacturing Co., for freight on naptha.....	3 65	
P. B. Mead, for horse.....	65 00	
George E. Scripture, for horse...	125 00	
C. H. Stickney, for damage to lamp post.....	8 50	
	425 26	
		\$19,745 63

EXPENDITURES.

Paid for LIGHTING PUBLIC
BUILDINGS :

To Lowell Gas Light Co., for gas.....	\$1,464 97	
	\$1,464 97	
<i>Amount carried forward</i>		\$1,464 97

Amount brought forward..... \$1,464 97

Paid for LIGHTING STREETS :

To Sundry persons for lighting street lights, as per pay-rolls.....	\$3,563 15
Appropriation for Roads and Bridges, for keeping horses, labor, etc.....	739 96
Appropriation for Paupers, for coal,	12 50
Appropriation for Water Works, for use of water.....	13 00
Lowell Gas Light Co., for gas consumed on streets.....	7,253 93
Lowell Gas Light Co., for meter connection	1 00
Globe Gas Light Co., for lighting and maintenance of street lights..	1,714 26
Globe Gas Light Co., for lanterns, lamps, etc.....	339 50
C. E. Adams, for lamps, globes, lantern tops, glass, shears, etc.....	369 10
Cole & Nichols, for posts, arms, etc.,	347 76
Pevey Bros., for posts, arms, labor, etc.....	354 74
H. R. Barker, for pipe, fixtures, burners, tips, hose, etc.....	155 22
James Barris, for frames.....	20 00
W. D. Harriman, for frames.....	81 00
A. E. Hart, for automatic gas burners,	9 00
F. S. Perkins, for cap screws and labor.....	33 61
H. H. Wilder & Co., for lanterns, lamps, copper frames, cans and labor.....	105 94
Howes & Burnham, for lamp posts,	42 60
Crowell & Harrison, for spavin cure,	1 00
Carleton & Hovey, for oil, glycerine, etc.....	3 55
C. B. Coburn & Co., for glass, naptha, oil, dusters, pails, chamois skin, soap, brooms, alcohol and varnish	188 70
H. C. Church, for waste.....	3 12
Fiske & Spalding, for painting and glazing lanterns.....	22 75
French & Puffer, for founts, chimnies, burners, wicks, etc.....	10 52
Gilbert & Barker Mn'g Co., for naptha	54 92

Amounts carried forward..... \$15,440 83 \$1,464 97

Amounts brought forward..... \$15,440 83 \$1,464 97

Paid for LIGHTING STREETS:

To Jonathan Kendall, for naphtha.....	1 80	
R. Simpson, for matches.....	20 00	
J. F. Puffer & Son, for chair, curtains and labor.....	5 25	
F. P. Coggeshall, for diary.....	75	
L. Brown & Co., for printing.....	6 25	
C. L. Knapp & Son, for printing...	6 50	
Stone, Bacheller & Livingston, for printing.....	4 25	
F. A. Bates, for cash paid for oil, benzine, sponge, postal cards, etc.,	10 75	
E. S. Hosmer, for cash paid for blank books.....	90	
Charles H. Richardson, for cash paid for postage stamps and expense of committees to Boston.....	5 00	
Lowell District Telephone Co., for telephone service.....	28 33	
H. A. Racicot, for painting, varnishing and lettering wagons.....	23 25	
Swett & Robbins, for repairing carriages	25 76	
William P. Brazer & Co., for carriage robe.....	8 00	
T. M. Bolton, for repairing harness, whip, etc.....	8 10	
S. L. Butman, for whip socket, halter and repairing harness.....	9 75	
M. Meaney, for cover for wagon...	5 00	
H. K. Ferrin, for exchange of wagons,	90 00	
Sawyer & Taylor, for brush, repairing harnesses, etc.....	7 55	
Joseph L. Noyes, for use of horse..	33 00	
E. J. Noyes, for horse and harness,	225 00	
Boston & Lowell Railroad, for transportation.....	2 47	
Boston & Maine Railroad, for transportation.....	3 65	
	<hr/>	15,972 14
Whole expenditure for the year.....		\$17,437 11
Balance undrawn January 1, 1881.....		2,308 52
		<hr/>
		\$19,745 63

PUBLIC BUILDINGS.

Balance undrawn January 1, 1880.....	\$1,896 69	
Appropriated and assessed in 1880.....	6,400 00	
	<hr/>	\$8,296 69

RECEIPTS.

Received into the Treasury on account
of PUBLIC BUILDINGS :

From Appropriation for Schools, for labor, etc.....	\$1,156 01	
Appropriation for Roads and Bridges, for sundries.....	1 12	
Appropriation for Paupers, for labor, etc.....	371 68	
Appropriation for Police, for labor,	130 32	
Appropriation for Fire Department, for labor, etc.....	208 77	
Appropriation for Commons, for labor, etc.....	416 42	
Appropriation for Library, for la- bor, etc.	14 20	
Appropriation for Health, for la- bor, etc.	9 44	
Appropriation for City Hall Build- ing Lot, for labor, etc.....	76 57	
Reserved Fund, for labor, etc....	175 20	
L. G. Howe, for use of ward room,	40 00	
Boston & Lowell Railroad, for re- pairs on roof of Huntington Hall,	10 40	
	<hr/>	2,610 13
		<hr/>
		\$10,906 82
Transferred from Reserved Fund.....		10,000 00
		<hr/>
		\$20,906 82
		<hr/>

EXPENDITURES

Paid SUPERINTENDENT OF PUBLIC BUILDINGS :

To L. G. Howe, Superintendent, salary,	\$1,300 00	
	<hr/>	\$1,300 00

Paid for ENGINE HOUSE AND WARD ROOM IN WARD FIVE :

To Valentine L. Wilson, for labor performed and material furnished on account of contract.....	\$1,500 00	
	<hr/>	\$1,500 00

Paid for SUNDRIES :

To Sundry persons, for labor as per pay-rolls.....	\$3,756 85	
Appropriation for School-Houses, for paint.....	17 00	
Appropriation for Roads and Bridges, for services of City Engineer.....	29 50	
Appropriation for Roads and Bridges, for fuel, labor, etc.	90 37	
Appropriation for Water Works, for use of water.....	10 00	
A. L. Brooks & Co., for lumber....	42 14	
A. P. Bateman, for lumber.....	27 67	
Howes & Burnham, for lumber.....	253 45	
A. Keddle, for sawing lumber.....	19 60	
M. C. Pratt & Co., for lumber and moulding.....	541 40	
Whitney & Tibbetts, for lumber....	13 09	
C. B. Stevens & Son, for posts, rails, turns, labor, etc.	50 48	
Sager Ashworth & Co., for re-cutting files	1 50	
C. E. Adams, for hardware and tools,	82 22	
John C. Bennett, for hardware.....	2 62	
H. A. Fielding, for hardware.....	11 00	
Heirs of H. F. Howe, for boring machine	4 00	
H. B. Shattuck, for hardware.....	25 86	
Francis E. Shaw, for cash paid J. O. Whittemore, for repairing lighting rods.....	6 00	
Frederick Taylor, for hardware.....	66 89	
	<hr/>	
Amounts carried forward.....	\$5,051 64	\$2,800 00

<i>Amounts brought forward,</i>	\$5,051 64	\$2,800 00
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Paid for SUNDRIES :

To American Bolt Co., for rods.....	5 20
James Barris, for iron and labor....	16 45
H. R. Barker, for pipe, fittings and labor	531 35
Cahill Bros., for shoeing horse.....	8 50
Cole & Nichols, for castings.....	59 85
T. Costello & Co., for solder, fittings, packing and labor.....	28 72
W. W. Carey, for saw bench, saws, shaft and belting.....	225 00
T. H. Curtis, for repairing, lock, etc.	35
John Gilchrist, for pipe, fittings and labor	10 12
T. R. Garity, for pipe, fittings, wrench and labor.....	126 26
Frank P. Hill & Co., for bolts, iron and steel.....	15 34
B. Libby, for lightning rods and labor,	120 87
S. G. Mack & Co., for zinc, pipe, moulding and labor.....	130 25
M. O'Flahaven & Co., for stop cock and labor	4 75
Pevey Bros., for castings.....	15 05
H. H. Wilder & Co., for ash hods..	5 00
J. A. Brabrook, for repairing har- ness, whip and bells.....	12 95
C. C. Barnes, for wagon.....	87 50
C. A. Ross & Co., for top of wagon,	14 00
Adams & Co., for bocking.....	5 25
C. B. Coburn & Co., for alcohol, twine, ammonia, oil, lead and brushes	108 30
French & Puffer, for brooms.....	9 00
Fiske & Spalding, for lead, oil, tur- pentine, brushes, sand, tracing cloth, etc.....	76 12
E. W. Hall, for rubber moulding...	6 00
Jonathan Kendall, for glass, brushes, shellac, whiting, red lead, alco- hol, etc.....	19 92
Wm. E. Livingston, for brick, lime and cement.....	108 13
C. P. Talbot & Co., for potash.....	90
R. S. Clifford, for repairing clock...	75

<i>Amounts carried forward,</i>	\$6,803 52	\$2,800 00
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<i>Amounts brought forward.....</i>	\$6,803 52	\$2,800 00
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Paid for SUNDRIES :

To S. D. Butterworth, for mason work and material.....	23 92	
E. W. Coburn, for mason work and material	39 79	
N. T. Staples & Sons, for mason work and material.....	2 70	
Robert Goulding, for zinc and labor,	2 86	
S. H. Weaver & Son, for roofing at City Stable.....	275 00	
Brown & Gove, for envelopes and printing.....	1 25	
Marden & Rowell, for advertising..	2 18	
E. Burgess, for paper.....	2 10	
H. C. Church, for blank book, paper and pens.....	2 81	
Jeremiah Daly, for labor.....	6 50	
D. P. Knowlton, for teaming.....	2 50	
James Leach, for teaming... ..	50	
J. C. Little, for teaming.....	1 00	
William Roberts, for teaming.....	2 00	
	<hr/>	7,168 63
Total expenditure for the year.....		\$ 9,968 63
Balance undrawn January 1, 1881.....		10,938 19
		<hr/>
		<u>\$20,906 82</u>

CITY LIBRARY.

Balance undrawn January 1, 1880.....	\$ 275 74	
Appropriated and assessed in 1880.....	2,800 00	
		\$3,075 74

RECEIPTS.

Received into the Treasury on account
of CITY LIBRARY :

From County of Middlesex on account of dog licenses of 1879.....	\$1,619 37	
Joseph A. Green, Librarian, for subscriptions	84 50	
Joseph A. Green, Librarian, for catalogues, supplements, fines, lost books and paper.....	6 40	
Marshall H. Clough, Librarian, for subscriptions	868 50	
Marshall H. Clough, Librarian, for catalogues, supplements, fines and lost books.....	80 76	
		2,659 53
		\$5,735 27
Transferred from Reserved Fund.....		700 00
		\$6,435 27

EXPENDITURES.

Paid LIBRARIAN :

To Marshall H. Clough, salary.....	\$1,000 00	
		\$1,000 00
<i>Amount carried forward.....</i>		\$1,000 00

Amount brought forward,..... \$1,000 00

Paid for BOOKS, ETC.:

To Andrew J. Bois, for books.....	\$ 1 25	
Bacheller, Dumas & Co., for blank books and binding.....	221 70	
F. P. Coggeshall, for books.....	129 24	
Marshall H. Clough, for books.....	34 80	
G. W. Cromack, for books.....	7 50	
W. S. Crown, for books.....	4 00	
Estes & Lauriat, for books.....	1,020 41	
J. W. Gregg, for books.....	8 00	
Horace H. Knapp, for books.....	60 50	
Library Journal, for periodical....	5 00	
J. Merrill & Son, for books.....	67 08	
J. M. Stoddard & Co., for books...	12 00	
Sullivan Bros. & Libbie, for books..	169 92	
Peter G. Thompson, for books.....	8 00	
	<hr/>	1,749 40

Paid for SUNDRIES:

To Appropriation for School-Houses, for paint.....	\$ 1 08	
Appropriation for Public Buildings, for lumber and labor.....	14 20	
H. Hosford, for rent and heating...	1,400 00	
Lowell Gas Light Co., for gas.....	157 36	
J. Frank Burrill, for services in library.....	31 50	
H. P. G. Clough, for services in library.....	12 00	
W. H. Gilman, for services in library,	495 00	
Stephen T. Wyman, for services in library.....	485 00	
Gerard Bement, for writing cards for catalogue	60 16	
Edward Cheney, for writing cards for catalogue	61 71	
Joseph P. Gray, for writing cards for catalogue	116 00	
William Green, for writing cards for catalogue	55 18	
James Howard, for writing cards for catalogue	15 22	
Charles W. Morey, for writing cards for catalogue	48 65	
<i>Amounts carried forward</i>	\$2,953 06	\$2,749 40

Amounts brought forward, \$2,953 06 \$2,749 40

Paid for SUNDRIES :

To T. W. Ruddock, for writing cards for catalogue	160 97	
James B. Russell, for writing cards for catalogue.....	162 00	
Horace F. Slocum, for writing cards for catalogue.....	105 56	
F. P. Coggeshall, for stationery, ink, pens, etc.	12 80	
H. C. Church, for paper.....	1 20	
F. J. Flemings, for paper.....	3 50	
Campbell & Hanscom, for advertising, Huse, Goodwin & Co., for advertising.....	1 75	
C. L. Knapp & Son, for advertising, Lowell Weekly Sun, for advertising, Marden & Rowell, for printing and advertising.....	1 50	
Stone, Bacheller & Livingston, for printing and advertising.....	1 75	
M. C. Pratt & Co., for lumber.....	1 00	
Sylvester Bean, for paste.....	21 75	
C. B. Coburn & Co., for duster.....	19 50	
Fiske & Spalding, for tracing cloth..	94	
A. Kittredge, for paste.....	1 60	
Adams & Co., for tables.....	3 50	
Hatch & Littlefield, for boxes.....	4 40	
A. Lake, for table legs.....	1 12	
Wood, Sherwood & Co., for wire...	9 00	
N. J. Wier & Co., for labor.....	6 20	
Richardson Ice Co., for ice.....	1 00	
Marshall H. Clough, for cash paid for postage, postal cards, express, paste, hatchet, matches, stationery, etc.	11 25	
Lowell District Telephone Co., for telephone service.....	65	
	24 00	
	37 95	
	75	
		3,548 70
Whole expenditure for the year.....		\$6,298 10
Balance undrawn January 1, 1881.....		137 17
		<u>\$6,435 27</u>

SALARIES.

Balance undrawn January 1, 1880.....	\$1,038 21
Appropriated and assessed in 1880.....	15,000 00
	<hr/> \$16,038 21 <hr/>

EXPENDITURES.

Paid Frederick T. Greenhalge, Mayor...	\$1,800 00
John H. McAlvin, City Treasurer and Collector of Taxes.....	2,425 00
Samuel A. McPhetres, City Clerk..	1,500 00
David Chase, Auditor of Accounts and Clerk of Common Council...	1,500 00
George F. Richardson, City Solicitor,	104 17
George F. Lawton, City Solicitor..	1,145 83
John H. Nichols, City Messenger..	900 00
Edwin W. Trueworthy, City Physi- cian and Superintendent of Burials,	700 00
James Murphy, Sealer of Weights and Measures.....	400 00
Joseph H. Dallagher, Inspector of Milk.....	4 17
James W. B. Shaw, Inspector of Milk.....	77 08
James A. Manuel, Pound Keeper..	5 00
Abijah Cutter, Fish Warden.....	40 00
Levi B. Stevens, Chairman of the Board of Assessors.....	900 00
Isaac A. Fletcher, Assessor of Taxes,	800 00
Everett W. French, Assessor of Taxes	800 00
David Lane, Assessor of Taxes....	800 00
James Marren, Assessor of Taxes..	800 00
William W. Reed, Assessor of Taxes,	800 00
	<hr/>
Whole expenditure for the year.....	\$15,501 25
Balance undrawn January 1, 1881.....	536 96
	<hr/> \$16,038 21 <hr/>

HEALTH.

Balance undrawn January 1, 1880.....	\$ 90 31	
Appropriated and assessed in 1880.....	7,000 00	
		\$7,090 3

RECEIPTS.

Received into the Treasury on account of HEALTH:		
From Commonwealth on account of con- tagious diseases.....	\$70 53	
Edwin Lamson, for old bath-house,	10 00	
		80 53
		\$7,170 84

EXPENDITURES.

Paid BOARD OF HEALTH:		
To James W. B. Shaw, Chairman.....	\$450 00	
Michael Hoar.....	200 00	
		650 00
Paid for PUBLIC BATHING:		
To Appropriation for Public Buildings, for hinges, nails and labor.....	\$ 9 44	
John E. Grant, for services at bath- ing house.....	106 50	
John McBride, for services at bath- ing house.....	169 50	
Ann Roper, for services at bathing house.....	15 00	
John E. Sullivan, for services at bathing house.....	156 75	
J. C. Little, for teaming.....	5 00	
William Roberts, for teaming.....	2 00	
		464 19
<i>Amount carried forward,.....</i>		\$1,114 19

<i>Amount brought forward,</i>		\$1,114 19
Paid for SUNDRIES :		
To Sundry persons, for labor as per pay-rolls.....	\$1,978 16	
Appropriation for Roads and Bridges, for labor with teams.....	1,056 00	
Appropriation for Paupers, for provisions, etc., at hospital.....	75 53	
Campbell & Hanscom, for printing and advertising.....	6 87	
Harrington Bros., for postal cards and printing.....	5 00	
C. L. Knapp & Son, for advertising,	2 50	
Lowell Morning Times, for advertising	2 00	
Marden & Rowell, for advertising...	4 37	
Stone, Bacheller & Livingston, for printing.....	3 25	
C. F. Blanchard, for vaccine points, virus and lint.....	35 10	
Carleton & Hovey, for kine points and carbolate of lime.....	82 12	
W. A. Ingham & Co., for oranges and lemons, for hospital.....	75	
H. J. & E. B. Adams, for matting and labor.....	10 58	
C. B. Coburn & Co., for feather duster	1 65	
M. Meaney, for awning.....	9 00	
Will D. Farnum, for clock and papers.....	2 80	
J. P. Folsom & Co., for red flannel,	45	
H. O. Morse, for carriage hire.....	1 00	
E. H. Morse, for carriage hire.....	41 00	
J. J. Colton, for vaccinating.....	15 00	
Leonard Huntress, for vaccinating..	251 50	
Edwin W. Trueworthy, for vaccinating	507 00	
Ellen Cummings, for services at hospital.....	6 00	
William Meloy, for services at hospital.....	20 00	
Mrs. M. J. Reed, for services at hospital.....	45 00	
W. S. Simons, for posting bills.....	6 00	
		4,168 63
Whole expenditure for the year.....		\$5,282 82
Balance undrawn January 1, 188.....		1,888 02
		<u>\$7,170 84</u>

WATER WORKS.

Balance undrawn January 1, 1880.....	\$ 342 39	
Appropriated and assessed in 1880.....	35,000 00	
	<hr/>	\$35,342 39

RECEIPTS.

Received into the Treasury on account
of WATER WORKS:

From Sundry persons, for use of water, service pipe and sundries in 1876,	\$ 7 29	
Sundry persons, for use of water, service pipe and sundries in 1877,	12 60	
Sundry persons, for use of water, service pipe and sundries in 1878,	7 59	
Sundry persons, for use of water, service pipe and sundries in 1879,	9,858 04	
Sundry persons, for use of water, service pipe and sundries in 1880,	113,802 97	
Sundry persons, for fees for shut- ting off and letting on water...	52 00	
	<hr/>	123,740 49
		<hr/> <u>\$159,082 88</u>

EXPENDITURES.

Paid PRESIDENT AND SUPERIN-
TENDENT OF WATER BOARD:

To Albert A. Haggett, President.....	\$ 350 00	
Horace G. Holden, Superintendent..	1,400 00	
	<hr/>	\$1,750 00
<i>Amount carried forward,.....</i>		<hr/> <u>\$1,750 00</u>

Amount brought forward..... \$1,750 00

Paid for LABOR, AS PER MONTH-
LY PAY-ROLLS :

In	January.....	\$1,152 17	
	February.....	795 17	
	March.....	1,021 17	
	April.....	1,459 22	
	May.....	1,582 50	
	June.....	1,634 00	
	July.....	1,552 75	
	August.....	1,495 39	
	September.....	1,510 51	
	October.....	1,477 14	
	November.....	1,452 03	
	December.....	1,044 76	
		<hr/>	16,176 81

Paid for INTEREST :

To	Sundry persons, for interest on City of Lowell Water Loan Bonds.....	\$78,510 00	
	Commonwealth of Massachusetts, for interest on note.....	2,500 00	
	City Institution for Savings, for in- terest on notes.....	3,250 00	
	Lowell Institution for Savings, for interest on notes.....	25,100 00	
		<hr/>	109,360 00

Paid for FUEL :

To	Daniel Gage, for wood.....	\$ 118 55	
	Whithed & Co., for coal.....	3,519 07	
		<hr/>	3,637 62

Paid for PIPE, HYDRANTS, ME-
TERS, ETC. :

To	H. R. Barker, for pipe, cocks, unions, sockets, etc.....	\$1,476 90	
	T. R. Garity, for pipe and fittings..	737 79	
	George H. Wight, for corporation cocks, unions, sockets, etc.....	218 72	
	Walworth Manufacturing Co., for pipe, etc.....	445 02	
	George Woodman & Co., for coup- plings, ells, unions, pipe, tongs, etc.	221 73	
	R. D. Wood & Co., for pipe and special castings.....	10,029 47	
		<hr/>	

<i>Amounts carried forward</i> ...:.....	\$13,129 63	\$130,924 43
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Amounts brought forward,..... \$13,129 63 \$130,924 43

Paid for PIPE, HYDRANTS, METERS, ETC.:

To Boston Lead Manufacturing Co., for pig lead, tin wire and pipe.....	530 10	
W. P. Brazier, for meter.....	8 00	
W. E. Desper & Co., for meters, couplings, etc.....	1,984 65	
Jenkins Bros., for meter packages..	5 30	
Runels & Foster, for meter.....	12 00	
Union Water Meter Co., for meters and repairing meters.....	713 58	
Henry R. Worthington, for meters and labor.....	298 32	
Boston Machine Co., for gates, drills, valves, hydrants, packing, etc....	1,439 42	
Pevey Bros., for covers and castings,	87 55	
Cole & Nichols, for castings.....	7 41	
Boston & Maine Railroad, for transportation.....	9 43	
Boston & Lowell Railroad, for transportation.....	234 26	
Nashua & Lowell Railroad, for transportation.....	5 52	
Old Colony Railroad, for transportation	35 51	
	<hr/>	18,500 68

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for keeping horses, labor, etc.....	\$ 364 13
Appropriation for Roads and Bridges, for sidewalk assessment, West Sixth street	118 39
Appropriation for Roads and Bridges, for services of City Engineer and assistants	343 00
Appropriation for Fire Department, for labor, etc.	440 57
Milton Aldrich, for handle and mallet,	2 30
A. P. Bateman, for lumber.....	58 45
A. L. Brooks & Co., for sawdust...	1 50
A. Bachelder & Co., for windows and labor	23 90
Howes & Burnham, for lumber.....	379 52
M. C. Pratt & Co., for lumber.....	51 50

Amounts carried forward..... \$1,783 26 \$149,425 11

Amounts brought forward,..... \$1,783 26 \$149,425 11

Paid for SUNDRIES :

To E. L. Williams, for lumber.....	4 00
Proprietors of Locks and Canals on Merrimack River, for kyanizing lumber.....	41 24
American Bolt Co., for bolts.....	2 16
Sager Ashworth & Co., for recutting files, etc.....	6 90
C. E. Adams, for hardware.....	53 16
John C. Bennett, for hardware.....	21 71
H. A. Fielding, for lawn mower, grindstone, shovels, etc.....	74 80
Rice & Co., for copper and wire cloth	39 67
H. B. Shattuck, for hardware and tools	27 03
Frederick Taylor, for hardware and tools	228 48
H. R. Barker, for steel, hose, fittings, labor, etc.....	682 49
Richard Dobbins, for iron and labor,	80
T. R. Garity, for globes, fittings and labor	13 58
Frank P. Hill & Co., for iron, steel and borax.....	17 93
J. A. Knowles, Jr., for repairing scale	14 50
Benjamin Lawrence, for repairing die plate and vise.....	6 62
Alvin Lawrence, for repairing clock,	2 50
L. Landerkin, for die plate.....	12 50
F. S. Perkins, for labor.....	2 90
B. Scannell & Co., for jacket kettle,	50 00
N. J. Wier & Co., for mica.....	30
H. H. Wilder & Co., for acid, solder, ladles and labor.....	13 75
Walworth Mn'g Co., for seals.....	8 82
C. B. Coburn & Co., for waste, val- voline, oil, packing, brushes, brooms, globe, blocks, rope, matches, etc.....	230 06
Walter Coburn, for waste.....	10 80
William Calderwood, for matches...	55
Fiske & Spalding, for glass, lead, oil and putty.....	22 69

Amounts carried forward,..... \$3,373 20 \$149,425 11

Amounts brought forward,..... \$3,373 20 \$149,425 11

Paid for SUNDRIES :

To J. Gates & Sons, for leather and hose.....	45 19
Samuel Horn & Co., for tallow.....	51 00
Jonathan Kendall, for oil, turpentine, varnish and soap.....	4 21
L. Katzenstein & Co., for packing,	51 81
Lowell Hosiery Co., for waste.....	2 25
Lowell Felting Mills, for felt.....	12 47
Wm. E. Livingston, for cement, charcoal and gravel.....	28 34
Miller Bros., for oatmeal.....	40
Nichols & Fletcher, for powder, fuse, brooms, matches and oatmeal....	118 26
Shaw Stocking Co., for waste.....	2 40
C. P. Talbot & Co., for soda ash, gum arabic, oxalic acid and potash,	7 02
Darius Whithed, for salt.....	40
S. L. Butman, for currycomb and strap.....	1 00
T. M. Bolton & Co., for collar and repairing harness.....	16 15
C. A. Ross & Co., for repairing carriage	30 17
Bachelor, Dumas & Co., for blank books	158 50
Campbell & Hanscom, for printing and advertising.....	13 25
Huse, Goodwin & Co., for printing and advertising.....	212 59
Harrington Bros., for postal cards and printing.....	3 25
C. L. Knapp & Son, for printing and advertising.....	35 00
Marden & Rowell, for printing and advertising.....	19 87
Stone, Bachelor & Livingston, for printing and advertising.....	81 50
W. S. Simons, for posting.....	1 50
H. C. Church, for books, stationery, etc.....	15 46
F. P. Coggeshall, for stationery, books, etc.....	29 85
C. A. Hayward & Co., for rubber bands	3 60

Amounts carried forward,..... \$4,318 64 \$149,425 11

Amounts brought forward..... \$4,318 64 \$149,425 11

Paid for SUNDRIES :

To W. H. Laskey, for maroon bands..	5 00
J. Merrill & Son, for books, stationery, stylographic pen and ink....	8 40
Lowell Post Office, for envelopes...	16 30
James M. Battles, for cash paid for postage stamps, postal cards, express and envelopes.....	38 38
H. G. Holden, for cash paid for travelling expenses. labor, etc.....	8 25
A. A. Haggett, for cash paid travelling expenses, etc., of Water Board	34 15
Middlesex Co. North District Registry of Deeds, for preparing and attesting conveyances.....	24 85
Lowell Horse Railroad, for tickets..	10 00
Lowell District Telephone Co., for telephone service.....	115 28
Lowell Gas Light Co., for gas.....	16 41
F. W. Bennett, for sand.....	27 88
Ira Hartwell, for brick, labor, etc...	11 00
Staples Bros., for drain pipe.....	1 40
E. A. & A. T. Smith, for repairing concrete	14 70
Robert Goulding, for slate, zinc and labor	8 45
S. H. Weaver & Son, for roofing...	3 00
Robert G. Bartlett, for right of way and maintenance of water pipe through Wamesit Court for five years	5 00
William Bratton, for overcharge in water rate in 1877.....	9 92
George E. Scripture, for damage by water.....	11 09
C. H. Hanson, for exchange of horses,	135 00
Michael Maguire, for use of horse...	3 50
Moses Churchill, for labor.....	6 75
H. M. Bickford, for teaming.....	6 45
Abiel H. Chase, for teaming.....	71 25
G. E. Stanley, for teaming.....	34 10
S. Tompkins, for teaming.....	1 00
Lovejoy & Co.'s Express, for transportation.....	1 70

Amounts carried forward,..... \$4,947 85 \$149,425 11

Amounts brought forward..... \$4,947 85 \$149,425 11

Paid for SUNDRIES :

To Penniman & Co.'s Express, for transportation.....	10 85	
Boston & Maine Railroad, for transportation.....	25	
Nashua & Lowell Railroad, for transportation.....	7 53	
	<hr/>	4,966 48
Whole expenditure for the year.....		\$154,391 59
Balance undrawn January 1, 1881.....		4,691 29
		<hr/>
		<u>\$159,082 88</u>

Expended in 1870.....	\$ 95,057 00
Expended in 1871.....	624,151 66
Expended in 1872.....	560,708 40
Expended in 1873.....	349,717 87
Expended in 1874.....	233,370 63
Expended in 1875.....	275,660 78
Expended in 1876.....	221,502 24
Expended in 1877.....	163,814 28
Expended in 1878.....	158,510 15
Expended in 1879.....	150,047 82
Expended in 1880.....	154,391 59

Total expenditure to January 1, 1881.....	\$2,986,932 42
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Total receipts to January 1, 1881.....	800,248 71
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Net cost of Water Works to January 1, 1881.....	<u>\$2,186,683 71</u>
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CITY HALL BUILDING LOT.

RECEIPTS.

Received into the Treasury on account
of CITY HALL BUILDING LOT:

From Lowell Institution for Savings, on the note of the city.....	\$85,300 00
Henry Emery, for old fence.....	51 50
L. G. Howe, from sale of shrub- bery.....	5 00
Thomas Knowles, for stone.....	18 47
Mollahan Bros., for stone and trellis.....	8 10
T. J. McDuffee, for boiler house..	10 00
Frank Brunelle, for rent.....	84 22
Eli Brunelle, for rent.....	84 22
Clara A. Choate, for rent.....	12 23
William Charlton, for rent.....	17 87
George Ebert, for rent.....	84 22
John Gillon, for rent.....	94 00
John B. Henry, for rent.....	24 45
Andrew Haley, for rent.....	104 97
Rufus Norman, for rent.....	151 55
Frank J. O'Roark, for rent.....	94 06
James N. Peirce, for rent.....	167 53
Hattie Queenan, for rent.....	84 23
Liberty C. Raymond, for rent....	156 22
W. N. Roberts, for rent.....	16 00
Kate Shea, for rent.....	60 21
William N. Smith, for rent.....	144 00
Phebe Scadding, for rent.....	84 21
Moses W. Stockman, for rent....	168 05

\$87,025 31

EXPENDITURES.

Paid for SUNDRIES :

To Merrimack Manufacturing Co., for lot of land bounded by Merrimack, Worthen, Moody and Colburn streets, under Resolution approved December 27, 1879, and Order of the City Council adopted January 2, 1880.....	\$85,300 00	
Appropriation for School-Houses, for lumber, paint and labor.....	17 20	
Appropriation for Roads and Bridges, for shovelling snow.....	1 50	
Appropriation for Public Buildings, for shingles, nails and labor.....	76 57	
Appropriation for Water Works, for use of water and labor.....	99 00	
A. L. Brooks & Co., for lumber and shingles.....	46 33	
Howes & Burnham, for lumber.....	30 65	
M. C. Pratt & Co., for lumber.....	3 80	
H. R. Barker, for pipe, caps and labor.....	6 08	
Fiske & Spalding, for labor, etc....	2 45	
A. L. Kittredge, for paper.....	15 27	
S. D. Butterworth, for mason work and material.....	14 80	
F. M. Merrill, for mason work and material	12 15	
George W. Pearson, for roofing....	39 90	
Huse, Goodwin & Co., for advertising,	1 00	
Marden & Rowell, for advertising...	4 25	
Stone, Bacheller & Livingston, for advertising.....	1 50	
John H. McAlvin, for cash paid for recording deed, etc.....	1 40	
J. W. Bruce & Co., for services at auction sale.....	5 00	
B. G. Brown, for grading lot.....	40 00	
Henry Holland, for shovelling snow,	1 00	
Whole expenditure for the year.....	85,719 85	
Balance undrawn January 1, 1881.....	1,305 46	
	<u>\$87,025 31</u>	

STATE AID.

For Disabled Soldiers and Sailors and
their Families, and for the Families
of the Slain, under an act of the
Legislature of the Commonwealth,
chapter 192, approved May 4, 1877,
and previous Acts :

Due from Commonwealth, Jan. 1, 1880,	\$14,044 57	
	<hr/>	\$14,044 57
		<hr/>

RECEIPTS.

Received into the Treasury on account
of STATE AID :

From Commonwealth, for reimbursement of State Aid.....	\$5,000 00
Due from Commonwealth, Jan. 1, 1881,	9,044 57
	<hr/>
	\$14,044 57
	<hr/>

STATE AID.

For Disabled Soldiers and Sailors and
their Families, and the Families of
Deceased Soldiers and Sailors, under
an Act of the Legislature of the Com-
monwealth, chapter 301, approved
April 30, 1879 :

Balance undrawn January 1, 1880.....	\$ 1,024.25	
Appropriated and assessed in 1880.....	9,000 00	
	<hr/>	\$10,024 25

RECEIPTS.

Received into the Treasury on account
of STATE AID :

From David J. Cheney, for overdraft...	6 00	
W. H. Courser, for overdraft....	6 00	
Patrick McEtee, for overdraft....	4 00	
Hugh Gillon, for overdraft.....	4 00	
Commonwealth, for reimbursement of State Aid.....	5,219 57	
	<hr/>	5,239 57
		<hr/>
		\$15,263 82
		<hr/> <hr/>

EXPENDITURES.

Paid sundry persons during the year 1880,	\$10,490 75	
	<hr/>	\$10,490 75
Balance undrawn January 1, 1881.....		4,773 07
		<hr/>
		\$15,263 82
		<hr/> <hr/>

AID FOR INDIGENT SOLDIERS AND SAILORS.

For Indigent Soldiers and Sailors, under
an act of the Legislature of the Com-
monwealth, chapter 252, approved
April 23, 1879.

Balance undrawn January 1, 1880.....	\$4,262 56	
Appropriated and assessed.....	6,000 00	
	<hr/>	\$10,262 56

RECEIPTS.

From John S. White, for overdraft.....	\$ 12 00	
Commonwealth, for reimbursement of aid.....	3,567 81	
	<hr/>	3,579 81
Transferred from Reserved Fund.....		1,200 00
		<hr/>
		\$15,042 37
		<hr/> <hr/>

EXPENDITURES.

Paid Sundry persons aid in 1880.....	\$12,135 00	
	<hr/>	12,135 00
Balance undrawn January 1, 1881.....		2,907 37
		<hr/>
		\$15,042 37
		<hr/> <hr/>

CITY DEBT.

Appropriated and assessed.....	\$37,000 00	
	<u> </u>	\$37,000 00

RECEIPTS.

Received into the Treasury on account of CITY DEBT:		
From Lowell Institution for Savings, on the City's Note, dated March 25, 1880, payable in ten years.....	\$50,000 00	
	<u> </u>	50,000 00
		<u>\$87,000 00</u>

EXPENDITURES.

Paid City Institution for Savings, a note which matured January 13, 1880..	\$50,000 00	
Lowell Institution for Savings, a note which matured March 22, 1880...	37,000 00	
	<u> </u>	<u>\$87,000 00</u>

INTEREST.

Balance undrawn January 1, 1880.....	\$4,596 55	
Appropriated and assessed in 1880.....	36,000 00	
	<hr/>	\$40,596 55

RECEIPTS.

Received into the Treasury on account of INTEREST:		
From Appleton National Bank, for in- terest on daily balances from Sept. 1, 1879, to Nov. 1, 1880,	\$1,200 13	
Appleton National Bank, for error in discount on notes.....	22 66	
Sundry persons, for interest on taxes	1,358 96	
	<hr/>	2,581 75
		<hr/>
		\$43,178 30
Transferred from Corporation Tax Ac- count.....		1,200 00
		<hr/>
		\$44,378 30

EXPENDITURES.

Paid City Institution for Savings.....	\$9,015 00	
Lowell Institution for Savings.....	14,926 88	
Lowell Five Cent Savings Bank...	2,175 00	
Salem Savings Bank.....	1,625 00	
Trustees of the Estate of Thomas Nesmith.....	1,560 00	
Trustees of the Estate of Jonathan Tyler	600 00	
Appleton National Bank, on tem- porary loan.....	3,574 49	
	<hr/>	
Whole expenditure for the year.....		\$33,476 37
Balance undrawn January 1, 1881.....		10,901 93
		<hr/>
		\$44,378 30

CORPORATION TAX.

Balance undrawn January 1, 1880.....	\$16,000 00	
	<hr/>	<u>\$16,000 00</u>

TRANSFERS.

To Appropriation for Schools.....	\$11,000 00	
Appropriation for Roads and Bridges,	1,000 00	
Appropriation for Paupers.....	2,000 00	
Appropriation for Police.....	800 00	
Appropriation for Interest.....	1,200 00	
	<hr/>	<u>\$16,000 00</u>

NOTE.—By an Ordinance of the City passed April 13, 1880, the receipts on account of Corporation Tax are placed to the credit of a Fund for the payment of the ordinary city debt.

NATIONAL BANK TAX.

Assessed on stock in National Banks owned by non-residents.....	\$20,221 90	
Allowance made by assessors.....	38 60	
	<hr/>	<u>\$20,260 50</u>

EXPENDITURES.

Paid Commonwealth National Bank Tax of 1880.....	\$20,260 50	
	<hr/>	<u>\$20,260 50</u>

STATE TAX.

Assessed in 1880.....	\$31,650 00	
	<hr/>	<u>\$31,650 00</u>

EXPENDITURES.

Paid Commonwealth, State Tax of 1880,	\$31,650 00	
	<hr/>	<u>\$31,650 00</u>

COUNTY TAX.

Assessed in 1880.....	\$15,904 08	
	<hr/>	<u>\$15,904 08</u>

EXPENDITURES.

Paid County of Middlesex, County Tax of 1880	\$15,904 08	
	<hr/>	<u>\$15,904 08</u>

TAXES.

The amount of taxes assessed on the polls, and on the real and personal estate within the City of Lowell, for the year 1880, was as follows :

VALUATION OF, AND TAX ON, REAL AND PERSONAL PROPERTY.

Valuation.	Rate.	Tax.
Of Real Estate, \$28,500,355 00	Tax \$16.20 per \$1000	\$461,705 75
Personal Estate, 12,601,661 80	“ “ “	204,145 62
Total valuation, <u>\$41,102,016 80</u>	Tax \$16.20 per \$1000	<u>\$665,851 37</u>
Number of polls, 14,329, at \$2.00 each..		28,658 00
Bank Tax assessed on shares of stock which were not included in the valuation of the city.....		20,221 90
Amount assessed on property after commitment of warrant to the collector,		<u>1,354 69</u>
Total amount of Taxes assessed in 1880,		<u><u>\$716,085 96</u></u>

APPROPRIATED AND ASSESSED IN 1880.

For City Appropriations.....	\$635,000 00
State Tax.....	31,650 00
County Tax.....	15,904 08
Tax on shares in National Banks not included in the valuation of the city,	20,221 90
Overlays.....	<u>13,309 98</u>
	<u><u>\$716,085 96</u></u>

TAXES.

	Due Jan. 1, 1880, and assessed in '80.	Abated in 1880.	Collected in 1880.	Due Jan. 1, 1881.
Taxes of 1878,	\$ 3,091 10	\$2,952 51	\$ 138 59	
Taxes of 1879,	32,382 48	160 83	26,361 90	\$ 5,859 75
Taxes of 1880,	716,085 96	2,317 63	676,668 58	37,099 75
Totals,	<u>\$751,559 54</u>	<u>\$5,430 97</u>	<u>\$703,169 07</u>	<u>\$42,959 50</u>

ABATEMENT OF TAXES.

Balance undrawn January 1, 1880.....	\$14,021 45	
Overlays assessed in 1880.....	13,309 98	
	<u> </u>	<u>\$27,331 43</u>

ABATEMENTS.

Abated by Assessors on Taxes of 1878..	\$2,952 51	
Abated by Assessors on Taxes of 1879..	160 83	
Abated by Assessors on Taxes of 1880..	2,317 63	
Allowance made by Assessors on National Bank Tax.....	38 60	
	<u> </u>	\$ 5,469 57
Balance undrawn January 1, 1881.....		21,861 86
		<u> </u>
		<u>\$27,331 43</u>

TEMPORARY LOAN.

RECEIPTS.

Borrowed of Appleton National Bank...	\$303,000 00	
	<u> </u>	<u>\$303,000 00</u>

PAYMENTS.

Paid Appleton National Bank.....	\$303,000 00	
	<u> </u>	<u>\$303,000 00</u>

SINKING FUNDS.

FOR THE REDUCTION OF THE WATER DEBT.

Appropriated and assessed in 1880.....	\$25,000 00	
	<u> </u>	<u>\$25,000 00</u>
Paid Commissioners of Sinking Funds...	\$25,000 00	
	<u> </u>	<u>\$25,000 00</u>

FOR THE PAYMENT OF THE LOAN OF 1876.

Appropriated and assessed in 1880.....	\$4,000 00	
	<u> </u>	<u>\$4,000 00</u>
Paid Commissioners of Sinking Funds...	\$4,000 00	
	<u> </u>	<u>\$4,000 00</u>

CITY HALL BUILDING LOT SINKING FUND.

Appropriated and assessed in 1880.....	\$7,000 00	
	<u> </u>	<u>\$7,000 00</u>
Paid Commissioners of Sinking Funds...	\$7,000 00	
	<u> </u>	<u>\$7,000 00</u>

FUND FOR THE REDUCTION OF THE ORDINARY CITY DEBT.

Received from Commonwealth, on account of Corporation Tax.....	\$39,743 70	
	<u> </u>	<u>\$39,743 70</u>
Paid Commissioners of Sinking Funds...	\$39,743 70	
	<u> </u>	<u>\$39,743 70</u>

The value of the several Sinking Funds
January 1, 1881, as reported by
the Commissioners of Sinking
Funds, are as follows :

City of Lowell Water Loan Sinking Fund,	\$248,514 99	
Sinking Fund for the reduction of the loan of 1876.....	17,424 64	
City Hall Building Lot Sinking Fund....	7,000 00	
Fund for the Payment of the Ordinary City Debt.....	39,743 70	
	<u> </u>	<u>\$312,683 33</u>

CARNEY MEDAL FUND.

*Received of James G. Carney, Esq., in 1858 and 1859, the amount of two hundred dollars, which is to remain a perpetual debt of the City forever ; the interest to be applied in pay- ment for the " Carney Medals," to the departments of the High School (annually,)	\$200 00	\$200 00
Undrawn January 1, 1880		\$200 00

*One hundred dollars was donated August 24, 1858, and accepted by the City Council Sep-
tember 14, 1858, and one hundred dollars additional, July 16, 1859, and accepted July 26, 1859.
For the information of the citizens of Lowell, the Auditor respectfully refers them to the
" Annual Report of the School Committee," for the year 1859, where all the correspondence be-
tween the donor and the receiptant may be found.

BALANCES, APPROPRIATIONS, RECEIPTS AND EXPENDITURES IN 1880.

Appropriations.	Balances Jan. 1, 1880.	Appropriations.	Transfers to Sundry Accounts.	Receipts.	Total Appropriations.	Transfers and Expenditures.	Trans. from Sundry Accounts.	Expenditures.	Expenditure in excess of Receipts.	Balances Jan. 1, 1881.
Schools.....	\$2,580.64	\$130,000.00	\$11,000.00	\$ 806.46	\$144,287.10	\$135,692.86	.....	\$135,692.86	\$134,886.40	\$8,694.24
School-Houses...	5,994.77	32,000.00	.....	1,164.33	39,159.10	33,278.04	.....	33,278.04	32,113.71	5,881.06
Roads & Bridges,	111.67	70,000.00	1,000.00	24,540.23	95,651.90	93,959.47	.....	93,959.47	69,419.24	1,692.43
Reserved Fund...	1,572.55	.....	.....	55,861.97	57,434.52	41,779.20	\$19,100.00	22,679.20	.....	15,655.32
Paupers.....	1,333.25	36,000.00	2,000.00	9,248.33	48,581.58	48,352.95	.....	48,352.95	39,104.62	228.63
Police.....	1,126.41	50,000.00	800.00	5,181.96	57,108.37	53,663.17	.....	53,663.17	48,481.21	3,445.20
Fire Department,	1,335.15	45,000.00	7,000.00	1,603.41	54,998.56	54,147.31	.....	54,147.31	52,543.90	851.25
Sewers & Drains,	476.13	60,000.00	.....	10,894.09	71,370.22	66,924.63	.....	66,924.63	56,030.54	4,445.59
Commons.....	354.36	1,800.00	200.00	226.50	2,580.86	2,540.38	.....	2,540.38	2,313.88	40.48
Printing and Advertising.....	278.10	3,000.00	.....	.....	3,278.10	3,185.72	.....	3,185.72	3,185.72	92.38
Lighting.....	2,320.37	17,000.00	.....	425.26	19,745.63	17,437.11	.....	17,437.11	17,011.85	2,308.52
Public Buildings.	1,896.69	6,400.00	10,000.00	2,610.13	20,906.82	9,968.63	.....	9,968.63	7,358.50	10,938.19
City Library.....	275.74	2,800.00	700.00	2,659.53	6,435.27	6,298.10	.....	6,298.10	3,638.57	137.17
Salaries.....	1,038.21	15,000.00	.....	.....	16,038.21	15,501.25	.....	15,501.25	15,501.25	536.96
Health.....	90.31	7,000.00	.....	80.53	7,170.84	5,282.82	.....	5,282.82	5,202.29	1,888.02
Water Works.....	342.39	35,000.00	.....	123,740.49	159,082.88	154,391.59	.....	154,391.59	30,651.10	4,691.29
City Hall Building Lot.....	.....	.....	.....	87,025.31	87,025.31	85,719.85	.....	85,719.85	.....	1,305.46
State Aid (Laws of 1879).....	1,024.25	9,000.00	.....	5,239.57	15,263.82	10,490.75	.....	10,490.75	5,251.18	4,773.07
Aid for Indigent Soldiers and Sailors.....	4,262.56	6,000.00	1,200.00	3,579.81	15,042.37	12,135.00	.....	12,135.00	8,555.19	2,907.37
City Debt.....	.....	37,000.00	.....	50,000.00	87,000.00	87,000.00	.....	87,000.00	37,000.00	.....
Interest.....	4,596.55	36,000.00	1,200.00	2,581.75	44,378.30	33,476.37	.....	33,476.37	30,894.62	10,901.93
Corporation Tax.	16,000.00	.....	.....	.....	16,000.00	16,000.00	16,000.00	.....	.....	.....
Nat. Bank Tax..	.....	20,260.50	.....	.....	20,260.50	20,260.50	.....	20,260.50	20,260.50	.....
State Tax.....	.....	31,650.00	.....	.....	31,650.00	31,650.00	.....	31,650.00	31,650.00	.....
County Tax.....	.....	15,904.08	.....	.....	15,904.08	15,904.08	.....	15,904.08	15,904.08	.....

Abatement Taxes,	14,021.45	13,309.98	.....	27,331.43	5,469.57	.....	*5,469.57	5,469.57	21,861.86
Temporary Loan,	.....	.....	.....	303,000.00	303,000.00	.....	303,000.00	.....	.....
Water Loan Sinking Fund.....	.....	25,000.00	.....	25,000.00	25,000.00	.....	25,000.00	25,000.00	.....
Loan of 1876.....	.....	4,000.00	.....	4,000.00	4,000.00	.....	4,000.00	4,000.00	.....
City Hall Building Lot Sinking Fund	.....	7,000.00	.....	7,000.00	7,000.00	.....	7,000.00	7,000.00	.....
Fund for the Payment of the Ordinary City Debt	.....	.....	.....	39,743.70	39,743.70	.....	39,743.70	.....	.....
Carney Medal Fund	200.00	.....	.....	200.00	.....	.....	.....	.....	200.00
	\$61,291.55	\$716,124.56	\$35,100.00	\$730,213.36	\$1,542,729.47	\$1,439,253.05	\$1,404,153.05	\$708,427.92	\$103,476.42

Deduct amount of Receipts over Expenditures in Reserved Fund.....

Deduct amount of Receipts over Expenditures in City Hall Building Lot.....

\$33,182.77
1,305.46

Deduct amount due for State Aid (Laws of 1866).....

Deduct amount due for Taxes

\$673,939.69

Deduct amount due for State Aid (Laws of 1866).....

Deduct amount due for Taxes

\$9,044.50
42,959.50

52,004.07

\$51,472.35

* Abated by Assessors of Taxes.

Balance of Appropriations January 1, 1881.....

DUE FROM THE CITY ON WATER LOAN.

DECEMBER 31, 1830.

Date of Notes and Bonds.	To whom payable.	Amount.	Per cent.	Bonds,	Interest, when due.	Annual Interest.	Notes & Bonds, when due.
1870, Nov. 1,	Merchants' National Bank.....	\$500,000 00	6	Bonds,	May 1 and Nov. 1,	\$30,000 00	1890, Nov. 1.
1870, Nov. 1,	Railroad National Bank.....	150,000 00	6	Bonds.	May 1 and Nov. 1,	9,000 00	1890, Nov. 1.
1870, Nov. 1,	City Institution for Savings.....	100,000 00	6	Bonds,	May 1 and Nov. 1,	6,000 00	1890, Nov. 1.
1870, Nov. 1,	Mechanics' Savings Bank.....	50,000 00	6	Bonds,	May 1 and Nov. 1,	3,000 00	1890, Nov. 1.
1870, Nov. 1,	Lowell Five Cent Savings Bank.....	46,000 00	6	Bonds,	May 1 and Nov. 1,	2,760 00	1890, Nov. 1.
1870, Nov 1,	Worcester County Institution for Savings.....	30,000 00	6	Bonds,	May 1 and Nov. 1,	1,800 00	1890, Nov. 1.
1870, Nov. 1,	Marlborough Savings Bank, Marlborough.....	10,000 00	6	Bonds,	May 1 and Nov. 1,	600 00	1890, Nov. 1.
1870 Nov 1	Lowell Water Loan Sinking Fund.....	4,000 00	6	Bonds,	May 1 and Nov. 1,	240 00	1890, Nov. 1.
1870, Nov. 1,	William Shepard.....	227,000 00	6	Bonds,	May 1 and Nov. 1,	13,620 00	1890, Nov. 1.
1870, Nov. 1,	Brewster, Sweet & Co.....	160,000 00	6	Bonds,	May 1 and Nov. 1,	9,600 00	1890, Nov. 1.
1870, Nov. 1,	G. T. Williams.....	8,000 00	6	Bonds,	May 1 and Nov. 1,	480 00	1890, Nov. 1.
1870, Nov. 1,	R. L. Day & Cobb.....	5,000 00	6	Bonds,	May 1 and Nov. 1,	300 00	1890, Nov. 1.
1870, Nov. 1,	Frederick Bailey.....	3,000 00	6	Bonds,	May 1 and Nov. 1,	180 00	1890, Nov. 1.
1870, Nov. 1,	E. G. Woodman.....	2,000 00	6	Bonds,	May 1 and Nov. 1,	120 00	1890, Nov. 1.

1870, Nov. 1,	Lucian H. Reed.....	2,000 00	6	Bonds,	May 1 and Nov. 1,	120 00	1890, Nov. 1.
1870, Nov. 1,	John F. Kimball.....	1,000 00	6	Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1870, Nov 1,	Weld Spaulding.....	1,000 00	6	Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1870. Nov. 1,	James Harper.....	1,000 00	6	Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1871, May 1,	Lowell Institution for Savings.....	200,000 00	6	City's Note,	May 1 and Nov. 1,	12,000 00	1891, May 1.
1873 June 14	Lowell Institution for Savings.....	100,000 00	6 and 10	City's Note,	June 14 and Dec. 14,	6,600 00	1893, June 14.
1874, Oct. 14	City Institution for Savings.....	50,000 00	6½	City's Note,	April 14 and Oct. 14,	3,250 00	1894, Oct. 14
1874, Nov. 12	Lowell Institution for Savings..	100,000 00	6½	City's Note,	May 12 and Nov. 12,	6,500 00	1894, Nov. 12.
1876, June 15	Commonwealth of Massachusetts.....	50,000 00	5	City's Note,	June 15 and Dec. 15,	2,500 00	1886, June 15.
		<u>\$1,800,000 00</u>				<u>\$108,850 00</u>	

NOTES DUE FROM THE CITY.

DECEMBER 31, 1880.

Date of Notes.	To whom payable.	Amount.	Per Cent.	Interest, when due.	Annual Interest.	Notes, when due.
1852, Sept. 1,	Lowell Institution for Savings.....	\$ 30,000 00	5	March 1 and Sept. 1,	\$1,500 00	1882, September 1.
1862, Sept. 13,	Lowell Five Cent Savings Bank.....	10,000 00	5½	March 13 and Sept. 13,	550 00	1882, September 13.
1862, Nov. 3,	City Institution for Savings.....	30,000 00	5½	May 3 and November 3,	1,650 00	1887, November 3,
1864, April 1,	City Institution for Savings.....	38,000 00	5¼	April 1 and October 1,	1,995 00	1884, April 1.
1870, April 1,	City Institution for Savings.....	20,000 00	6 ⁴⁵ / ₁₀₀	April 1 and October 1,	1,290 00	1881, October 1.
1870, June 1,	City Institution for Savings.....	20,000 00	6 ⁴⁵ / ₁₀₀	June 1 and December 1,	1,290 00	1883, October 1.
1870, Aug. 1,	City Institution for Savings.....	20,000 00	6 ⁴⁵ / ₁₀₀	February 1 and August 1,	1,290 00	1885, October 1.
*1871, Mar. 6,	Bequest of Thomas Nesmith.....	25,000 00	6	March 6 and Sept. 6,	1,500 00	Perpetual Debt.
+1871, Apr. 10,	Bequest of Thomas Nesmith.....	1,000 00	6	April 10 and October 10,	60 00	Perpetual Debt.
1872, Aug. 5,	Salem Savings Bank.....	25,000 00	6½	February 5 and August 5,	1,625 00	1882, August 5.
1873, Oct. 17,	Lowell Institution for Savings.....	30,000 00	7	April 17 and October 17,	2,100 00	1883, October 17.
1874, Aug. 7,	Lowell Institution for Savings.....	100,000 00	6½	February 7 and August 7,	6,500 00	1894, August 7.
1874, Nov. 25,	Lowell Five Cent Savings Bank.....	25,000 00	6½	May 25 and November 25,	1,625 00	1894, November 25.
1875, July 1,	Lowell Institution for Savings.....	10,000 00	6	January 1 and July 1,	600 00	1885, July 1.

†1878, May 10, Bequest of Jonathan Tyler.....	10,000 00	6	May 10 and November 10,	600 00	Perpetual Debt.
1880, Jan. 2, Lowell Institution for Savings.....	85,300 00	4 $\frac{3}{4}$	January 2 and July 2,	4,051 75	1890, January 2.
1880, March 25, Lowell Institution for Savings.....	50,000 00	4 $\frac{29}{100}$	March 25 and Sept. 25,	2,145 00	1890, March 25.
Amount of city debt (ordinary)	\$ 529,300 00		Int. on ordinary city debt,	\$30,371 75	
Amount of Water Loans.....	1,800,000 00		Interest on Water Loans,	108,850 00	
Total amount of city debt.....	<u>\$2,329,300 00</u>		Total interest on city debt,	<u>\$139,221 75</u>	

*Interest on the same (for the poor).

†Interest on the same (High Street Church).

‡Interest on the same (for the poor).

DEBTS DUE THE CITY,

JANUARY 1, 1881.

For Taxes of 1879.....	\$5,859 75
Taxes of 1880.....	37,099 75
Sidewalk assessments.....	4,977 74
Sewer assessments.....	11,457 05
Water rates and service pipe.....	8,262 06
Execution against Horace Howard..	48 21
Book accounts.....	604 62
State Aid.....	19,545 32
Aid to Indigent Soldiers and Sailors,	6,061 50
Rent of Armories.....	800 00
	<hr/>
	<u><u>\$94,716 00</u></u>

REAL ESTATE OWNED BY THE CITY.

City Government Building.....	\$ 30,000 00
Huntington and Jackson Halls.....	41,200 00
Market House.....	56,000 00
City Scales, rear of Market House.....	1,000 00
Shed, back of Market House.....	150 00
High school-house on Anne and Kirk streets.....	45,300 00
Bartlett school-house on Clark street.....	13,000 00
Edson school-house on Highland street.....	17,400 00
Colburn school-house on Lawrence street.....	21,000 00
Franklin school-house on Middlesex and Branch streets,	14,000 00
Moody school-house on East Merrimack street.....	12,000 00
Green school-house on Merrimack street.....	105,800 00
Mann school-house on Lewis street.....	13,500 00
Varnum school-house on Myrtle street.....	17,000 00
Sherman school-house on Powell street.....	7,000 00
Primary school-house on Merrimack and Race streets..	3,400 00
Primary school-house on Middlesex and Elliott streets,	6,000 00
Primary school-house and Ward room on Church street,	5,000 00
Primary school-house on School street.....	6,700 00
Primary school-house on High street.....	3,600 00
Primary school-house on Paige street.....	2,300 00
Primary school-house on Carter street.....	7,500 00
Primary school-house on Charles street.....	2,500 00
Primary school-house on Fayette street.....	5,500 00
Primary school-house on Rock street.....	2,100 00
Primary school-house on Cabot street.....	3,250 00
Primary school-house on West Sixth street.....	10,038 00
Primary school-house on River street.....	5,500 00
Primary school-house on Ames and Lawrence streets..	7,700 00
Primary school-house on Dover street.....	7,700 00
Primary school-house on Agawam street.....	6,000 00
Primary school-house on London street.....	3,255 00
Primary school-house on Chapel street.....	5,400 00
Primary school-house on Central and Chapel streets...	9,000 00
Primary school-house on Howard street.....	4,000 00
Primary school-house on Worthen street.....	26,000 00
Primary school-house and Ward room on Central street,	21,200 00
Primary school-house on Common street.....	34,000 00
Primary school-house on High street.....	15,000 00
Primary school-house on Varnum avenue.....	500 00
Primary school-house on Mammoth street.....	3,000 00

Amount carried forward,..... \$600,493 00

<i>Amount brought forward,</i>	<i>\$600,493 00</i>
Primary school-house at Middlesex Village.....	3,000 00
Primary school-house on Cheever street.....	3,476 36
Primary school-house on Tenth street.....	7,715 44
Primary school-house on Kirk street (unfinished)....	22,100 00
Hose carriage-house on Fayette street.....	3,100 00
Hook and ladder-house, ward room, carpenter's shop and armories on Middle street.....	21,000 00
Engine-house and stable, Middle street.....	14,250 00
Engine-house and stable, Gorham street.....	13,200 00
Engine-house, Ayer's city.....	500 00
Hose carriage-house, Fletcher street.....	3,500 00
Hose carriage-house, Central street.....	3,700 00
Hose carriage-house, Warren street.....	2,400 00
Engine-house and ward room, Branch street.....	17,784 00
Engine-house and ward room, Fourth street.....	12,600 00
Land and engine-house and ward room, Fletcher street (unfinished).....	3,000 00
Almshouse and farm.....	25,000 00
House for Chaplain at City Farm.....	2,500 00
Pest-house at City Farm.....	2,500 00
Brick-house for aged people at City Farm.....	2,400 00
Land and buildings on Adams, Fletcher, Cross and La- grangestreets.....	51,329 00
Land in rear of Market House building.....	1,250 00
Land on Chelmsford street.....	1,600 00
Land on First street.....	190 00
Land on Fletcher and Whiting streets.....	1,133 00
Land on Middle street.....	10,600 00
Land on Tenth street.....	5,000 00
House and land on Wilder street.....	5,100 00
Land on Wilder and Pine streets.....	5,280 00
North Common.....	17,000 00
South Common.....	23,300 00
Mount Vernon Park.....	2,000 00
Belvidere Park.....	2,300 00
City Hall Building Lot.....	85,300 00
	<hr/>
	<u>\$975,600 80</u>

WATER WORKS.

The real estate and personal property belonging to the city, occupied and used by the Water Works, net cost to January 1, 1881.....\$2,186,683 71

BURIAL GROUNDS OWNED BY THE CITY.

- No. 1 Burial ground, on School street.
- No. 2 Burial ground, on Gorham street.
- Edson Cemetery, on Gorham street.

PERSONAL PROPERTY OWNED BY THE CITY.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF HORACE G. HOLDEN, SUPERINTENDENT OF WATER WORKS, JANUARY 1, 1881.

CAST-IRON PIPE AND SPECIAL CASTINGS.

DIAMETER IN INCHES.....	4	6	8	12	16	20	24	30	10
Lengths	15	11	37	26	12	21	10	15	.....
Cut pieces, total length in feet.....	10	9	16	22	... ..	60	.....	32	.....
Curves, total number.....	1	25	9	9	1	12	6	6	.....
Sleeves, " "	27	13	28	15	2	2	10	5	6
Half-Sleeves, " " .....	.....	.....	.....	17	4	14	.....	6	.....
Caps, " "	24	4	34	15	4	1	1	.....	.....

	4x4	4x6	6x6	6x8	6x12	6x16	8x8	8x10	8x12	10x12	12x12	12x16	16
4-Ways,	6	.....	6	4	.....	.....	6	1	3	2	2	2	1
3-Ways,	7	.....	17	1	17	.....	16	.....	10	.....	2	.....	.....
Reducers	.....	8	.....	17	2	.....	.....	1	2	3	.....	3	.....

CAST-IRON PIPE AND SPECIAL CASTINGS.

Wrought-Iron Pipe.—50 feet 2-inch pipe, 120 feet 1½ inch pipe, 600 feet 1-inch pipe, 450 feet ¾ inch pipe, 50 feet ½ inch pipe, 30 feet ¼-inch pipe. **One post hydrant, 6 hydrant-box frames, 4 hydrant-box covers,** 3 gate-box frames, 3 gate-box covers, 4 old style gate covers. **Lead Connections.**—2 1-inch, 7 ¾-inch, 4 ⅝-inch, 3 ⅜-inch, for cement pipe. **Corporation Cocks.**—3 1-inch, 2 ¾-inch, 7 ⅝-inch, 9 1-inch for cement pipe, 13 ¾-inch for cement pipe, 11 ⅝-inch for cement pipe. **Stop and Waste Cocks.**—5 2-inch, 28 1-inch, 50 ¾-inch, 17 ¾-inch old style. **Solder Nipples.**—68 ⅝-inch. **Unions.**—2 2-inch, 16 1-inch, 17 ¾-inch, 18 ⅝-inch. **Sockets.**—70 1-inch, 80 ¾-inch, 14 ⅝-inch. **Turns.**—6 1 x ¾-inch, 48 1-inch, 18 ¾-inch, 16 1-inch ⅛ turn, 7 ¾-inch ⅛ turn, 4 2-inch. **Plugs.**—10 1-inch, 8 ¾-inch, 8 ⅝-inch, 4 ½-inch. **Couplings.**—25 2-inch, 16 1½-inch. **Bushings.**—2 1-inch, 5 ¾-inch, 3 2-inch. **4-Ways.**—6 1½ x ¾ inch, 60 ¾ x ¾-inch, 5 2 x ¾-inch, 1 2 x ½-inch, 1 1½ x 1-inch, 42 1-inch. **3-Ways.**—7 2 x 1-inch, 8 2 x ¾-inch, 1 1½ x 1½-inch, 1 1½ x 1-inch, 2 7 x ¾-inch, 36 ¾ x ¾-inch. **Sundries.**—9 1-inch caps, 8 second-hand hydrants, 12 wheelbarrows, 1½ cords wood, 1 cord logs for blasting purposes, 2 derricks, shear poles, 3 M. feet kyanized lumber, 1 M. feet planks, 20 M. feet old lumber, 6 work benches, 3 ton iron junk, 1 large map locating main pipe, 1 foot lathe, 1 coal-hod, 1 coal stove, 1 framing square, 2 water tanks, 2 zink pumps, 1 counter scale, 1 platform scale, 4 tool chests, 4 cane seat chairs, 1 street fountain, 1 12-foot ladder, 1 apparatus for testing meters, 1 apparatus for testing pipe, 1 copper suction pump, 1 force pump, 3 tapping machines, 3 brooms, 6 galvanized-iron pails, 1 keg 10^d nails. 1 wagon wrench, 25 assorted wrenches, 9 monkey-wrenches, 8 rammers, 3 paving mauls, 30 shovels, 20 picks, 3 hoes, 4 draught chains, 1 wrapping chain, 1 bbl. cement, ½ bbl. white clay, 20 lbs. jute gasket, 3 lead pots, 1 lead furnace, 2 snow shovels, 2 doz. new pick-handles, 3 nipping-bars, 4 crowbars, 60 feet rubber hose, 1 hose reel, 1 copper goose-neck, 1 brass reducer, 2 portable closets, 1 doz. lanterns, 4 doz. lantern wicks, 3 hand-saws, 1 leather tool bag, 1 tin match safe, 1 doz. piston rods for meters, 1 duster, 18 calking sets, 2 nail hammers, 8 striking hammers, 2 paving hammers, 2 stone hammers, 2 sledge hammers, 6 rubber connections, 1 fore-plane, 12 feet drain pipe, 551 sidewalk box caps, 3 pairs rubber boots, 100 feet canvas hose, 1 portable iron forge, 20 iron lug-straps, 350 lbs. iron bolts, 1 keg spikes, 26 iron valves for hydrants, 25 rubber packings for hydrants, 3 syphons with pipe attached, 6 iron stop boxes, 3 solder furnaces, 1 sprinkling pot, 2 iron wood mallets, 4

solder irons, 10 assorted files, 12 gravel screens with fixtures, 5 hanging irons for pipe under bridges, 2 3-foot iron screws, 1 iron tube-pump with boring machine, 1 bale sand bags, 1 machine for cement-lining pipe, 10 iron bands for main pipe, 25 lbs. cotton waste, 3 hydrant dippers with chains, 1 press-drill, 2 washer cutters, 1 grindstone, 300 lbs. iron, 1 set blacksmith tools, 10 lbs. iron washers, 30 lbs. assorted nuts, 6 calking hammers, 100 lbs. extra brass hinges, 7 screw drivers, 1 set steel numbers, 1 dog lathe, 2 hatchets, 2 axes, 4 $\frac{5}{8}$ -inch brass faucets, 3 lbs. red-pipe lead, 30 brass seals, 1 ratchet die, 528 lbs. steel in drills, 5 blasting spoons, 6 pipe wedges, 4 yarn-ing irons, 1 sieve, 3 spades, 4 pipe-vises, iron bucket for testing meters, 8 cold-chisels, 1 bit-stock, 3 bits, 3 large lead ladles, 2 small lead ladles, 5 sling ropes, 30 lbs. rubber, 4 dies, 3 die plates, 17 pairs pipe-tongs, 2 pipe cutters, 2 trowels, 8 assorted gate screws, 5 rubber connections, 3 iron tooth rakes, 2 saw-horses, 2 buck-saws, 1 framing chisel, 2 ice-chisels, 2 square shovels, 18 assorted wood plugs for main, 8 lbs. shims and wedges, 4 paving plank, 2 root axes, 1 dualing pot, 1,000 lbs. iron in rods, 1 10-gallon kerosene can, 1 8-gallon can, 1 5-gallon can, 1 2-gallon can, 2 1-gallon cans, 3 $\frac{1}{2}$ -gallon cans, 1 2-quart tin measure, 1 4-quart wooden measure, 1 tunnel, 1 bbl. charcoal, 2 desks, 1 40-foot leather belt, 1 blacksmith shop, 1 work shop, 1 carriage house, 1 stable, 1 shed for storage, 1 grain box, 1 horse, 2 harnesses, 1 canvas horse-cover, 1 rubber horse-cover, 2 horse blankets, 2 surcingles, 1 manure fork, 2 hay forks, 1 horse card, 1 curry-comb, 1 horse brush, 2 dusters, 2 halters, 1 wagon-jack, 1 pung, 2 express wagons, 3 $\frac{5}{8}$ -inch Worthington meters, second-hand, 1 1-inch, second-hand, 1 1-inch F. R., second-hand, 3 $\frac{5}{8}$ -inch, second-hand, 1 $\frac{5}{8}$ -inch Desper, new.

TOOLS AT FILTER INLET.

2 iron-tooth rakes, 11 shovels, 1 rammer, 1 axe, 2 ice-chisels, 1 gate wrench, 1 nail hammer, 1 pick, 2 brooms, 1 wheelbarrow.

TOOLS AT RESERVOIR.

1 grindstone, 2 iron rakes, 3 forks, 6 shovels, 1 sod cutter, 1 axe, 1 saw, 2 hoes, 2 scythes, 2 sneaths, 1 grass hook, 1 wheelbarrow, 1 coil rope, 2 spare screws, 2 thermometers, 1 lantern, 1 snow shovel, 1 iron bar.

PROPERTY IN WATER BOARD AND SUPERINTENDENT'S OFFICE.

22 chairs, 1 letter press, 2 stools, 3 desks with draws, 3 standing desks, 3 office tables, 1 book case, 1 clock, 3 thermometers, 5 ink-

stands, 1 water cooler, 1 tumbler, 4 maps of Lowell, 1 map of water distributing-pipes, 3 waste baskets, 3 mats, 3 hat-racks, 6 spittoons, 9 assorted wrenches, 1 tin match safe, 1 lantern, 8 sticks sealing wax, 1 water gauge, 2 screw drivers, 2 monkey-wrenches, 2 files, 2 hydrant dippers, 1 safe, 1 key-rack, 2 picks, 1 steel prodding-bar, 1 shovel, 1 atlas of Lowell, 1 atlas of Middlesex County.

PROPERTY AND TOOLS AT ENGINE HOUSE.

1 vise, 1 work bench, 8 sets brasses for engine, 2 sets differential blocks, 1 piece 2-inch rope, 2 sets fire irons, 1 brass hydrant, 3 axes, 11 wrenches, 1 hand-saw, 2 jack-screws, 26 cold-chisels, 1 ratchet drill, 1 socket drill, 3 calking chisels, 1 barometer, 2 thermometers, 1 water cooler, 1 desk, 1 indicator, 1 oil cupboard, 2 oil dishes, 1 screen for well, 1 platform scale, 4 crowbars, 64 feet $\frac{5}{8}$ -inch chain, 16 eye bolts, 1 truck, 1 key wrench, 1 wrench for air pump, 1 iron wheelbarrow, 2 hand-saws, 1 buck-saw, 1 saw-horse, 2 gas lamps, 1 high grade thermometer, 4 brass bolts, 1 $\frac{1}{2}$ -inch diameter, for pump valves, 5 spare pump valves, 5 sets spare weights for valves, 11 socket wrenches, 7 pairs gas tongs, 11 finished wrenches Morris engine, 12 finished wrenches Worthington engine, 3 sledge hammers, 12 drills, 1 black walnut cabinet, 9 chains, 2 lengths hose, 6 copper lamps, 4 shovels, 1 floor brush, 100 bolts, assorted sizes, 2 bit-stocks, 3 bits, 1 25-foot ladder, 1 20-foot, 1 8-foot, 1 pair steps, 1 hoe, 2 racks, 1 fore plane, 3 monkey-wrenches, 100 feet 2-inch rope, 4 chisel bars, 1 small die plate, 6 small taps, 4 finished socket wrenches for Worthington engine, 2 14-quart iron pails, 6 spare rubber valves, 1 clock, 4 hand-hammers, 2 spare rubber valves for for air pump, 1 extra set of grates for boiler, 1 grindstone, 1 anvil, 2 shovels.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF JOHN C.

WOODWARD, SUPERINTENDENT OF STREETS, JANUARY 1, 1881,

BELONGING TO THE APPROPRIATION FOR ROADS AND BRIDGES.

1 engine, blacksmith tools and stock, 10 tons coal, 34 tons hay, 5 tons carrots, $\frac{1}{2}$ ton straw, 95 bushels oats, 70 bags meal, 8 street rakes, 7 forks, 38 horses, 16 sets double harnesses, 13 single harnesses, 4 lead harnesses, 28 feed baskets, 60 currycombs and brushes, 47 collars, 41 halters, 70 blankets, 41 surcingles, 1 horse sling, 7 horse covers, 2 buffalo robes, 1 boiler, 14 double carts, 7 single carts, 1 watering cart, 5 wood wagons, 3 pauper wagons, 1 lumber wagon,

3 single wagons, 1 four-seated wagon, 14 double wood sleds, 2 dump sleds, 2 single sleighs, 3 pauper sleighs, 2 stone truck drags, 17 wheelbarrows, 450 feet oak plank, 37 shovels, 1 stone roller, 1 grindstone, 1 boring machine, 1 sand screen, 4 gravel rakes, 2 augers, 2 anvils, 1 street sweeper, 1 coal screen, 875 feet edgestone, 15 stone bounds, 3 stoves, 2 saws and saw frames, 1 hand saw, 5 wood saws, 4 saw horses, 51 snow shovels, 20 hoes, 4 corn brooms, 5 street brooms, 10 lanterns, 6 oil cans, 6 pails, 46 picks, 8 striking hammers, 11 face hammers, 7 paving hammers, 2 hand hammers, 5 stone hammers, 4 brick hammers, 350 lbs. drills, 9 plug drills, 25 crowbars, 10 axes, 1 adze, 1 well jack, 2 jack screws, 3 plows, 2 street scrapers, 1 scythe, 110 stake chains, 10 draught chains, 10 hammer handles, 48 pick handles, 1 stone crusher, 1 building for stone crusher, 2 sets crusher plates, 1 street broom, 20 bundles broom material, 2 stone wheelbarrows, 1 platform scale, 1 pair draught wheels, 2 tubs, 6 snow scrapers, 1 snow plow, 1 nail hammer, 12 tool chests, 3 dump tubs, 2 coal hods, 3 cart bodies, 1 wagon body, 500 feet oak lumber, 4000 feet spruce plank, 4 wood baskets, 6 spirit levels, 1 road builder, 1 clock, 8 steel wedges, 6 coal baskets, 3 coal shovels, 14 stone cutters' points, 2 trowels, 6 paving mauls, 1 crosscut saw, 3 ladders, 1 hand-cart, 4 long-handle shovels, 3 derrick tubs, 2 chairs, 1 derrick and rigging, 1 desk, 5 powder cans, 4 tamping bars, 1 hay cutter, 420 feet wide flagging, 1400 lbs. mineral salt, 50 feet North River flagging. The value of the above named property is \$17,882.15.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF JOHN C.

WOODWARD, SUPERINTENDENT OF STREETS, JANUARY 1, 1881,
BELONGING TO THE APPROPRIATION FOR SEWERS AND DRAINS.

76 shovels, 68 picks, 17 crowbars, 22 striking hammers, 10 face hammers, 29 lanterns, 3 anvils, 1 horse, 1 committee wagon, 3 pumps, 1 Farmer boiler, 20,000 feet lumber, 8 tool chests, 3 blacksmith's sledges, 1 cast-iron maul, 1 hand force pump, 1 cast-iron pot, 2 pairs rubber boots, 2 galvanized dippers, 4 hydrant valves, 7 plug drills, 5 pairs blacksmith's tongs, 7 rakes, 1 tin horn, 4 galvanized pails, 10 sheeting caps, 5 oil cans, 3 forges, 2 electric batteries, 3 shear poles and rigging, 4 powder cans, 3 saws, 4 hand hammers, 9 chains, 11 tag ropes, 6 sheeting mauls, 867 lbs. drills, 3 spirit levels, 3 jack screws, 3 trowels, 5 axes, 6 hoes, 8 hose reducers, 150 feet rubber hose, 7 pails, 7 wheelbarrows, 4 grappling irons, 4 water

dippers, 3 paving hammers, 5 Concord grates, 3 catch-basin traps, 100 lbs. steel drills, 4 sheeting grapnels, 1 vise, 4 stone cutters' points, 3 hand hammers, 1 steel square, 6 dump tubs, 2 wrenches. The value of the above named property is \$1,754.90.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF L. G.
HOWE, SUPERINTENDENT OF PUBLIC BUILDINGS, JAN. 1, 1881.

865 feet pine boards, 300 feet Georgia pine floor boards, 395 fence pickets, 245 feet whitewood boards, 210 feet pine sheathing, 100 feet 2-inch pine plank, 570 feet 3-inch pine plank, 275 feet cherry boards, 500 feet oak plank, 1000 feet old lumber, 10 gallons varnish, 2 old stoves, 30 primary desks, 124 grammar desks, 4 teachers' desks, 5 boxes glass, 95 desk irons, large size, 113 pedestals, 16 old tables, 88 desk irons, small size, 2 water pails, 4 waste baskets, 2 coal hods, 242 gross crayons, 41 settees at the several armories, 21 mats, 6 mop-handles, 13 hand-brushes, 7 match-boxes, 7 ink-fillers, 10 drinking-dippers, 25 yards Brussels carpeting, 2 gas fixtures, 3 dozen ink-wells, 50 grammar chairs, 106 primary chairs, 10 registers, 4 yards enameled cloth, 25 small chairs, 35 large coffins, 7 small coffins, 11 ladders, 100 small chairs in Ward 6 ward room (evening school), 11 tables in Ward 6 ward room (evening school), 70 chairs in Ward 3 ward room (evening school), 16 tables in Ward 3 ward room (evening school), 28 settees in ward rooms (evening school), belonging to public buildings, 360 chairs at Green (evening school), 90 tables at Green (evening school), 240 stools at Green school (evening school), 4 tables at Howard Mission (evening school), 1 teacher's desk at Howard Mission (evening school), 4 settees at Howard Mission (evening school), 15 chairs at Howard Mission (evening school), 400 feet of rubber hose at different schools, 3 dozen padlocks, 2 casks nails, furniture at the City Government Building and Huntington and Jackson Halls, furniture at school-houses not included in real estate, furniture in ward rooms, furniture in armories and drill rooms, 9 door-sets, 2 floor sets, 1 horse, 2 wagons and harnesses, 1 sleigh, 2 blankets and 1 horse-cover, 1 cast-steel bell on Market House, 1 bell in High-street Church tower, 1 bell in Varnum school-house tower, 1 bell in city yard, for the new engine house, 3 flag staffs, 2 picks, 12 shovels, 10 wheelbarrows, 1 shingle ripper, 1 grindstone, 1 steel yard, 2 augers, 6 pairs steps, 6 wood saws, 4 hand screws, 9 axes, 5 pairs pipers' tongs, 4 masons' jacks, 12 paint pots, 15 oil

cans, 12 paint brushes, 1 set of painters' rigging for stage, 2 sand-boxes for painting, 1 saw-bench and engine in shop. The value of the above named property is \$27,234.51.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF E. S.

HOSMER, SUPERINTENDENT OF STREET LIGHTS, JANUARY 1, 1881.

Oil-house and shop, 754 gas lights, 186 fluid lights, 1 horse, 3 wagons, 2 sleighs, 2 harnesses, 2 blankets, 1 robe, wagon jack and wrenches, 270 fluid lamps, 11 oil cans, 23 kerosene lamps, 40 chimnies, 10 gallons alcohol, oil tank, 15 patent torches, 23 ladders, 1 air pump, 2 pairs tongs, 3 pairs pliers and nippers, 1 oil tester, 1 John-son pump, 100 lamp-post cocks, 10 lbs. waste, 1 set piping tools, 100 feet pipe, 20 lbs. fittings, 31 lamp posts, 35 lamp-post arms, 5 square lanterns, 7 globes, 1½ gross matches, 5 old frames, 1 gross vesper burners, 2 boxes glass. The value of the above named property is \$20,280.70.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF E. S.

HOSMER, CHIEF ENGINEER OF THE FIRE DEPARTMENT, JANUARY 1, 1881.

One four-circuit automatic repeater, with battery of 228 cups, 30 miles wire, 47 signal boxes, 15 gongs, 8 strikers, 1 bell, 10 indicators, 3 steam fire engines, 2 hook and ladder trucks fully equipped, 8 horse hose carriages, 3 hand hose carriages, 7 horse hose sleighs, 2 two-horse traverse-runner sleighs, 1 two-horse traverse-runner sled, 1 protective wagon, fully equipped, 1 pipe truck, 1 Concord wagon, 1 light sleigh, 8 fuel wagons, 17 horses, 6 sets double harnesses, 8 single harnesses, 2 breast plates, 15 halter bridles, 20 blankets, 8 rollers, 3 pairs lead bars, 12,550 feet 2½-inch hose, 300 feet ¾-inch rubber hose, 28 hose pipes, stop nozzles, 1 four-way chuck, 9 two-way chucks, reducers, belts, ladder straps, lanterns, pails, water pots, 11 carriage jacks, 1 silver trumpet and case, 25 beds and bedding, 142 badges and dies, 20 gross buttons and dies, wrenches, stoves, mirrors, chairs, brooms, spittoons, brushes, dusters, coal hods, ash hods, hay, grain, straw, oil, keys, whips, coal boxes, clocks, axes, bars and tools necessary for repairs on engines, hydrants, fire alarm telegraph, and for cleaning horses. The value of the above named property is \$79,482.00. There is also under the charge of the Chief Engineer 672 hydrants and 17 reservoirs.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF LORENZO
PHELPS, SUPERINTENDENT OF INSTITUTIONS AT CITY FARM,
JANUARY 1, 1881.

Two horses, 2 pairs matched horses, 8 cows, 33 shoats, 40 fowls, 1 carryall, 1 beach wagon, 1 double sleigh, 1 traverse-runner sleigh, 1 market wagon, 1 express wagon, 2 two-horse wagons, 1 single wagon, 3 dump carts, 1 night-soil cart, 1 single sled, 2 traverse-runner sleds, 1 sled, 2 carriage harnesses, 2 light harnesses, 2 pairs double harnesses, 1 cart harness, lot of old harnesses, robes, blankets, 3 sets side boards, 1 hand sled, 12 wheelbarrows, chestnut posts, 7 ladders, 1 Farmer boiler, wood, 1 hay cutter, lot hot bed sash, 36 coffins, blocks and ropes, 15 tons first quality English hay, 12 tons second quality English hay, 5 tons meadow hay, $1\frac{1}{2}$ tons oat straw, 41 bushels oats, lot of grain, 62 casks, 1000 gallons vinegar, 1550 gallons cider, 382 bushels sugar beets, 48 bushels blood beets, 200 bushels turnips, 1000 lbs. carrots, 300 bushels potatoes, 6 plows, 2 cultivators, 3 harrows, 2 jacks, 1 winnowing mill, 20 chains, 12 shovels, 6 manure forks, 12 hoes, 20 rakes, 5 picks, 5 iron bars, 18 hay forks, 2 stone hammers, 5 wrenches, 6 sickles, 4 ropes, 12 trowels, 4 saw horses, 5 axes, 2 sets whiffletrees, 2 mowing machines, 1 hay knife, lot of squash, 1 hand engine, hose, buckets, provisions in store room, stock and tools in blacksmith shop, stock and fixtures in plant room, stock and tools in shoe shop, stock and tools in paint shop, stock and tools in carpenter's shop, 75 tons coal, 55 cords wood, furniture, bedding, crockery, etc. The value of the above named property is \$14,648.82.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF JAMES
MURPHY, SEALER OF WEIGHTS AND MEASURES, JAN. 1, 1881.

Forty 50 lb. weights, 1 each 7, 14 and 28 lb. weights, 1 set avoirdupois weights, 1 set troy weights, 1 set apothecary weights, 1 set dry measures, 1 set liquid measures, 1 English beam balance scale, 1 testing scale, 1 metric weight, 1 metric measure, 1 set figures and stamps, 1 branding iron, 2 boxes, $\frac{1}{2}$ bushel flax seed. The value of the above named property is \$162.00.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF ALBERT
PINDER, CITY MARSHAL, AT POLICE COURT ROOMS, JAN. 1, 1881.

Twenty-eight white oak chairs, 17 pine chairs, 6 cane-seat chairs, 1 easy chair, 2 office chairs, 1 safe, 34 settees, 6 black walnut tables,

1 mahogany table, 5 officer's desks, 1 witness stand, 2 clocks, 60 yards ratteen carpet, 30 yards wool carpet, 50 yards tapestry carpet, oil cloth, 1 crumb cloth, 10 spittoons, 2 thermometers, 1 broom, 1 floor brush, 1 dust pan, 1 dust brush, 1 feather duster, 12 mats, 2 carpet sweepers, 1 pail. The value of the above named property is \$631.00.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF ALBERT
PINDER, CITY MARSHAL, AT POLICE STATION, JANUARY 1, 1881.

One safe, 12 desks, 45 office chairs, 6 spittoons, 10 ink stands, 2 clocks, 2 tables, 1 wardrobe, 1 lounge, 1 settee, 6 dippers, 20 locks and keys, 1 slate, 100 police clubs, 40 police belts, 80 police badges, 1 tub, 5 mattresses, 1 ice tank, 5 lanterns, 2 brushes, 2 brooms, 2 shovels, 2 pitchers, 2 mirrors, 1 mat, police dockets and records, law books, stationery, 1 Lippincott's Gazetteer, 1 shovel, 1 hoe, 1 wheelbarrow, 2 fire hooks, 2 fire chisels, 9 ash hods, 2 whitewash brushes, 1 pail, 1 hammer, 1 wrench. The value of the above named property is \$685.00.

REAL AND PERSONAL PROPERTY OWNED BY THE CITY.

Real Estate.....	\$ 975,600 80
Water Works, net cost to January 1, 1881.....	2,186,683 71
Personal Property in care of Superintendent of Streets,	19,637 05
Personal Property in care of Superintendent of Institu-	
tions at City Farm.....	14,648 82
Personal Property in care of Superintendent of Public	
Buildings	2,220 51
Personal Property in care of Superintendent of Street	
Lights.....	20,280 70
Personal Property in care of Chief Engineer of the Fire	
Department	79,482 00
Personal Property in care of Sealer of Weights and	
Measures	162 00
Person Property in care of City Marshal.....	1,316 00
Furniture in City Hall and in Huntington and Jackson	
Halls.....	9,000 00
Furniture in School-Houses.....	10,200 00
Furniture in Armories.....	550 00
Furniture in Ward Rooms.....	150 00
Books, etc., at City Library.....	14,000 00
Bell on Varnum School-House.....	1,000 00
Bell on Market House Building.....	900 00
Bell on High-street Church.....	500 00
Clock on High-street Church.....	500 00
Flagstuffs	1,214 00
Debts due the City.....	94,716 00
Cash in Treasury.....	51,472 35

\$3,484,233 94

SEWERS CONSTRUCTED IN 1880.

In Andover and Water streets, from Concord River to Fayette street, thence on Water street about 175 feet southerly.....	\$1,859 14
Austin and Ford streets. In Austin street, from Ford street to a point opposite the premises of the Merriam Heirs, and in Ford street, from Cabot street to a point opposite the premises of A. L. Goodrich.....	3,912 08
Andrews street, from the terminus of the sewer built in 1879 to a point opposite the premises of B. F. Crosby.....	1,989 47
Central, Prescott and Middle streets, from the sewer near the storehouse of the Massachusetts Cotton Mills, through Central, Prescott and Middle streets to a point about 100 feet north-erly of Central street.....	2,815 56
Dutton street, from the sewer in Fletcher street to a point near the Western Canal.....	397 44
Eighth street, from the sewer formerly laid in said street to a point opposite the premises of E. T. Rowell.....	85 13
Fletcher and Dutton streets, from the sewer in Liberty Square through Fletcher and Dutton streets to a point opposite the premises of Jewett & Swift.....	4,227 16
Fayette street, from Everett street to a point oppo-site the Hose House.....	255 50
Fayette and Everett streets, from Andover street to a point opposite the premises of H. A. Hap-good	967 86
Fifth street, from Bridge street to a point near Read street.....	846 35
Fletcher and Bowers streets, from Dane street to a point opposite the premises of Ann Conihe...	914 48
<i>Amount carried forward,</i>	<hr/> \$18,270 17

Amount brought forward,..... \$18,270 17

In Grove street, from Loring street to a point opposite the premises of William Bascom.....	592 51
Hall, Coolidge, Aiken and Cheever streets, from Cabot street through Hall to Aiken street, thence through Aiken and Cheever streets to a point near Tucker street, and through Coolidge and Cheever streets to a point near Aiken street,	3,949 45
High and Bartlett streets, from East Merrimack street to a point opposite the premises of Lawrence Farley.....	1,074 64
Howard street (No. 1), from Hale street to a point near the premises of Samuel C. Eaton.....	1,114 60
Howard street (No. 2), from the sewer at Railroad street to a point about 250 feet southerly.....	800 82
Livingston street, from Gorham street to a point opposite the premises of Charles Howard.....	714 43
Lyon street, from Kinsman street to a point opposite the premises of Richard Tiffany, and from Central street to a point opposite the premises of John Ryden.....	956 18
Moody street outlet, from Merrimack river, to the sewer previously laid.....	1,526 95
Methuen street, from Seventh street to Tenth street,	865 22
Myrtle street, intercepting sewer, from Merrimack river, through land of Proprietors of Locks and Canals on Merrimack river, across First street, through land of J. A. Patten, across Third street, through Myrtle street to Sixth street.....	6,823 68
Mount Vernon street, from Pawtucket street to a point opposite the premises of Danville Cole....	1,800 88
Marginal sewer, cost of constructing Marginal and Porter streets, and damagers to abutters.....	2,483 55
Pollard street, from Chapel street to a point opposite the premises of Michael Hunt.....	335 68
Robbins street, from Westford street to a point opposite the premises of Clarendon Goodwin....	894 71
Smith and Westford street, from Branch street to a point opposite the premises of David Huntoon..	4,114 13
School street, from the sewer at Grove street, to a point about 250 feet southerly.....	288 67
Tenth street, from Methuen street to a point opposite the premises of C. I. W. Maynard.....	534 25
Wannalancet and Pawtucket streets, from Merrimack river, through land of Julia Williams, through Pawtucket and Wannalancet streets to a point opposite the premises of J. G. Rogers....	2,815 04

Amount carried forward..... \$49,955 56

<i>Amount brought forward</i> ,.....	\$49,955 56
In Tremont street, from a point near the Tremont Mills, to a point near Moody street.....	291 54
Westford street, from the sewer formerly laid in said street to Robbins street.....	1,108 66
Wilder street, from Marginal sewer to a point opposite the premises of Charles F. Varnum.....	592 88
West Third street, from Coburn street to a point opposite the premises of Henry A. Hildreth....	732 28
Willie street, from Broadway, 100 feet northerly..	224 77
Whipple street, from Hale's Brook to a point near the premises of Joseph Tilton.....	1,909 19
Catch basins: 53 catch basins built in streets in which sewers had been laid previous to the year 1880	3,193 25
Total cost of sewers constructed in 1880.....	\$58,008 13
Cost of sewers constructed previous to 1880.....	563,652 08
Total cost of sewers to January 1, 1881.....	<u>\$621,660 21</u>

LEASE AND RENTS OF BUILDINGS OWNED BY THE CITY.

	Per Annum.
Leased to Charles P. Talbot & Co., store and cellar in Market House Buildings for five years from Octo- ber 1, 1878.....	\$1,200 00
Rented to Commonwealth, rooms for armories.....	800 00
Rented to County of Middlesex, Police Court Rooms..	750 00
Rented to Carleton & Hovey, store in City Hall Build- ing.....	1,200 00
Rented to Mrs. S. A. Proper, store in City Hall Build- ing.....	900 00
Rented to Percia L. Dyar, store in City Hall Building,	900 00
Rented to Helen J. Bartlett, store in City Hall Build- ing.....	900 00
Rented to John Gillon, tenement on Moody street....	108 00
Rented to F. J. O'Roarke, tenement on Moody street,	108 00
Rented to Andrew Haley, tenement on Colburn street.	120 00
Rented to James M. Peirce, tenement on Colburn street.....	192 00
Rented to William N. Roberts, tenement on Colburn street.....	192 00
Rented to William N. Smith, tenement on Merrimack street	192 00
Rented to Moses W. Stockman, tenement on Merri- mack street.....	192 00
Rented to Liberty C. Raymond, tenement on Merri- mack street.....	192 00
Rented to Frank Brunelle, tenement on Merrimack street.....	96 00
Rented to Eli Brunelle, tenement on Merrimack street,	96 00
Rented to Phoebe Scadding, tenement on Merrimack street.....	96 00
Rented to William Charlton, tenement on Merrimack street.....	96 00
Rented to George Ebert, tenement on Merrimack street.....	96 00
Rented to Hattie Queenan, tenement on Merrimack street	96 00
Rented to William Meloy, tenement on Central street,	60 00

\$8,582 00

LAND AND BUILDINGS FOR WHICH THE CITY PAYS RENT.

	Per Annum.
To Boston & Lowell Railroad Co., for ground rent for Huntington and Jackson Halls.....	\$ 475 00
Hocum Hosford, for rent of rooms for City Library,	1,200 00
Francis H. Chandler, for rent of building for horse carriage in Pawtucketville.....	130 00
Proprietors of Locks and Canals on Merrimack River for rent of land in rear of Market House building	225 00
Proprietors of Locks and Canals on Merrimack River for rent of land on First street.....	20 00
	<u>\$2,050 00</u>

DAVID CHASE,

Auditor.

TREASURER'S ACCOUNT, 1880.

CITY OF LOWELL,
Office of CITY TREASURER AND COLLECTOR OF TAXES,
January 1, 1881.

TO THE CITY COUNCIL :

Gentlemen—I have the honor to present herewith an account of the receipts and payments from January 1 to December 31, 1880.

Respectfully submitted,

JOHN H. McALVIN,

City Treasurer and Collector of Taxes.

Dr. CITY OF LOWELL in account with JOHN H. McALVIN:

For Cash paid on account of

Schools	\$148,688	74
School-Houses	33,623	41
Streets	97,194	23
Reserved Fund	24,215	79
Paupers	51,895	78
Police	56,231	06
Fire Department	56,339	67
Sewers	68,873	71
Commons	2,546	13
Printing	3,493	57
Lighting	18,616	09
Public Buildings	10,221	03
City Hall Building Lot	85,719	85
Library	6,742	29
Water Works	156,774	70
Health	5,282	82
Salaries	15,501	25
State Aid	10,490	75
State Aid, Indigent Soldiers and Sailors	12,135	00
Interest	33,476	37
Temporary Loans	303,000	00
City Debt	87,000	00
State Tax	31,650	00
County Tax	15,904	08
National Bank Tax	20,260	50
City of Lowell Water Loan Sinking Fund	25,000	00
Sinking Fund for the reduction of the Loan of 1876	4,000	00
City Hall Building Lot Sinking Fund, Fund for the reduction of the Ordinary City Debt	39,743	70
	<hr/>	\$1,431,620 52
Balance, cash on hand, Dec, 31, 1880...		51,472 35
		<hr/>
		<u>\$1,483,092 87</u>

City Treasurer and Collector of Taxes, January 1 to December 31,
1880. *Cr.*

By cash received on account of		
Balance January 1, 1880.....		\$44,710 44
Schools.....	\$ 806 46	
School-houses	1,164 33	
Streets.....	24,540 23	
Reserved Fund.....	55,861 97	
Paupers.....	9,248 33	
Police.....	5,181 96	
Fire Department.....	1,603 41	
Sewers.....	10,894 09	
Commons	226 50	
Lighting	425 26	
Public Buildings.....	2,610 13	
City Hall Building Lot.....	87,025 31	
Library.....	2,659 53	
Water Works.....	123,740 49	
Health.....	80 53	
State Aid.....	10,239 57	
State Aid, Indigent Soldiers and Sailors.....	3,579 81	
Interest.....	2,581 75	
Taxes of 1878.....	138 59	
Taxes of 1879.....	26,361 90	
Taxes of 1880.....	676,668 58	
Temporary Loans.....	303,000 00	
City Debt.....	50,000 00	
Fund for the reduction of the Ord- inary City Debt.....	39,743 70	
	<hr/>	1,438,382 43
		<hr/>
		<u>\$1,483,092 87</u>

IN COMMON COUNCIL, January 11, 1881.

Read and referred to the Joint Committee on Accounts. Sent up
for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 11, 1881.

Read and referred in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

CITY OF LOWELL.

IN COMMITTEE ON ACCOUNTS,
January 21, 1881.

TO THE CITY COUNCIL :

Gentlemen—The Joint Committee on Accounts, to whom was referred the account of John H. McAlvin, City Treasurer and Collector of Taxes, for the year 1880, hereby certify that, pursuant to the ordinances of the City of Lowell, we have examined said account and find the same correctly cast and all payments therein charged, sustained by proper vouchers.

We have also examined the accounts of said Treasurer and Collector up to the day of the date of this report, at which time we find a cash balance of \$63,326.00 in the hands of John H. McAlvin, City Treasurer and Collector of Taxes, which we have verified by an actual examination of all funds in the hands of the City Treasurer and Collector of Taxes.

Respectfully submitted,

LEVI SPRAGUE,
CHAS. H. RICHARDSON,
Z. D. HALL,
L. J. SMITH,
ALBERT W. BURNHAM,

Joint Committee on Accounts, 1881.

IN COMMON COUNCIL, January 25, 1881.

Read and accepted. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 25, 1881.

Read and accepted in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

CITY OF LOWELL WATER LOAN SINKING FUND.

TO THE CITY COUNCIL :

Gentlemen—The Commissioners of Sinking Funds of the City of Lowell, in compliance with section 5 of chapter 209 of the Acts and Resolves passed by the General Court of Massachusetts, in the year 1875, have the honor to report the amount and condition of said funds, and the income thereof, for the financial year ending December 31, 1880, to wit :

CITY OF LOWELL WATER LOAN SINKING FUND.

The amount standing to the credit of the City of Lowell Water Loan Sinking Fund Account, on the thirty-first day of December, 1880, was.....	<u>\$248,514 99</u>
---	---------------------

Of this amount there was received previous to January 1, 1880.....	\$213,988 55
Appropriated by the City Council in the year 1880.....	25,000 00
Received in the year 1880, for interest on investments	9,526 44 <hr style="width: 100%;"/>
	<u>\$248,514 99</u>

The amount of payments for securities previous to January 1, 1880, was...	\$213,090 99
--	--------------

The amount of payments from January 1,
1880, to December 31, 1880, was for
the following securities, to wit :

One \$1,000.00 Arlington, 6s, bond.....	1,000 00
Premium.....	130 00
Accrued interest.....	5 50 <hr style="width: 100%;"/>

Amount carried forward,.....	\$214,226 49
------------------------------	--------------

<i>Amount brought forward</i> ,	\$214,226 49	
One \$1,000.00 Manchester, 6s, bond....	1,000 00	
Premium.....	105 00	
Accrued interest.....	16 00	
Two \$500.00 Manchester, 6s, bonds....	1,000 00	
Premium.....	105 00	
Accrued interest.....	20 33	
Three \$1,000.00 Cambridge, 6s, bonds..	3,000 00	
Premium.....	570 00	
Accrued interest.....	30 49	
One \$1,000.00 Lowell, 6s, bond.....	1,000 00	
Premium.....	165 00	
Accrued interest.....	20 17	
Twenty-four \$1000.00 Stoughton 4s, bonds,	24,000 00	
Premium.....	300 00	
Accrued interest.....	101 33	
Two \$500 Wilton 6s, bonds.....	1,000 00	
Premium.....	80 00	
Accrued interest.....	1 33	
One \$500.00 Pawtucket 5s, bonds.....	500 00	
Premium.....	60 00	
Accrued interest.....	1 46	
Two \$500.00 Pawtucket 5s, bonds.....	1,000 00	
Premium.....	120 00	
Accrued interest.....	4 45	
	<hr/>	\$248,427 05
Balance, cash on hand, December 31, 1880 (of which sum \$87.00 is invested in the Lowell Institution for Savings)		87 94
		<hr/> <hr/>
		\$248,514 99

Respectfully submitted,

JACOB ROGERS,

J. F. KIMBALL,

E. W. HOYT,

Commissioners of Sinking Funds.

RECAPITULATION.

CITY OF LOWELL WATER LOAN SINKING FUND.

DR

For Cash paid for securities, premium
and accrued interest, from September
22, 1873, to December 31, 1880 :

37 \$1,000.00 Lowell 6s, bonds..... \$37,302 42

Amount carried forward,..... \$37,302 42

<i>Amount brought forward</i>	\$37,302 42	
30 \$1,000.00 Lawrence 6s, bonds.....	29,427 34	
2 \$1,000.00 Chelsea 6s, bonds.....	2,010 67	
38 \$1,000.00 Bangor 6s, bonds.....	39,648 25	
11 \$1,000.00 Portland 6s, bonds.....	11,684 08	
1 \$5,000.00 Haverhill 6s, bonds.....	5,626 25	
1 \$5,000.00 Lawrence 6's, bonds.....	5,764 16	
2 \$1,000.00 Fall River 6s, bonds.....	2,165 34	
4 \$500.00 Bangor 6s, bonds.....	2,180 00	
18 \$500.00 Manchester 6s, bonds.....	10,137 00	
2 \$500.00 Wilton 6s, bonds.....	1,081 33	
3 \$500.00 Pawtucket, 5s, bonds.....	1,685 91	
1 \$1,000.00 Arlington, 5s, bond..	1,084 30	
1 \$1,000.00 Natick, 5s, bond.....	1,024 17	
1 \$1,000.00 Somerville, 5s, bond.....	1,072 22	
3 \$1,000.00 Arlington, 6s, bonds.....	3,377 50	
16 \$1,000 00 Manchester, 6s, bonds....	18,054 99	
4 \$1,000.00 Cambridge, 6s, bonds.....	4,679 49	
1 \$10,000.00 Lowell, 5½, note.....	10,229 03	
1 \$10,000.00 Beverly, 6s, note.....	10,381 67	
1 \$200.00 Dover, 6s, bond.....	217 13	
1 \$1,000.00 Nashua, 6s, bond.....	1,110 58	
21 \$1,000.00 Wayland, 5s, bonds.....	21,752 50	
2 \$1,000.00 Bangor, 7s, bonds.....	2,329 39	
12 \$2,000.00 Stoughton, 4s, bonds.....	24,401 33	
		\$248,427 05
Balance cash on hand Dec. 31, 1880....		87 94
		<u>\$248,514 99</u>

CR.

By cash received from September 22, 1873, to December 31, 1880..... \$248,514 99

IN COMMON COUNCIL, January 11, 1881.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 11, 1881.

Read and referred in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

CITY OF LOWELL.

IN COMMITTEE ON ACCOUNTS,
January 21, 1881.

TO THE CITY COUNCIL :

Gentlemen—The Joint Committee on Accounts to whom was referred the report of Commissioners of Sinking Funds, of the condition of the City of Lowell Water Loan Sinking Fund Account to January 1, 1881, hereby certify that we have examined said account and find the securities to be the same as reported, and all in the hands of John H. McAlvin, the Secretary and Treasurer of the Commissioners of Sinking Funds.

Respectfully submitted,

LEVI SPRAGUE,
CHAS. H. RICHARDSON,
ALBERT W. BURNHAM,
Z. D. HALL,
L. J. SMITH,

Joint Committee on Accounts 1881.

IN COMMON COUNCIL, January 25, 1881.

Read and accepted. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 25, 1881.

Read and accepted in concurrence.

SAMUEL A. MCPHETRES,
City Clerk.

SINKING FUND,

FOR THE REDUCTION OF THE LOAN OF 1876.

TO THE CITY COUNCIL :

Gentlemen—The Commissioners of Sinking Funds of the City of Lowell, in compliance with Section 5 of Chapter 209 of the Acts and Resolves passed by the General Court of Massachusetts in the year 1875, have the honor to report the amount and condition of said funds, and the income thereof for the financial year ending December 31, 1880, to wit :

REDUCTION OF THE LOAN OF 1876, SINKING FUND.

The amount standing to the credit of the Reduction of the Loan of 1876, Sinking Fund, on the thirty-first day of December, 1880, was.....	<u>\$17,424 64</u>
--	--------------------

Of this amount there was received pre- vious to January 1, 1880.....	\$12,737 37
Appropriated by the City Council of 1880,	4,000 00
Received in 1880, for interest on invest- ments	687 27
	<u>\$17,424 64</u>

The amount of payments for securities previous to January 1, 1880, was...	\$12,336 20
--	-------------

The amount of payments from January 1,
1880, to December 31, 1880, was for
the following securities :

1	\$500.00 Manchester 6s, bond.....	500 00
	Premium.....	52 50
	Accrued interest.....	10 17
6	\$500.00 Pawtucket 5's, bond.....	3,000 00
	Premium.....	360 00
	Accrued interest.....	7 08
1	\$500.00 Pawtucket 5's, bond.....	500 00
	Premium.....	60 00
	Accrued interest.....	2 22
		<u>\$16,828 17</u>

Amount carried forward,.....	<u>\$16,828 17</u>
------------------------------	--------------------

<i>Amount brought forward</i> ,.....	\$16,828 17
Balance, Cash on hand, December 31, 1880, (of which \$280.77 is invested in the City Institution for Savings, and \$315.00 in the Lowell Institution for Savings).....	596 47
	<u>\$17,424.64</u>

RECAPITULATION.

REDUCTION OF LOAN OF 1876 SINKING FUND.

DR.

For cash paid for securities, premium and
accrued interest, from October 10,
1877, to December 31, 1880 :

3 \$1,000.00 Manchester, 6s, bonds.....	\$3,341 50	
2 \$500.00 Manchester, 6s, bonds.....	1,122 92	
4 \$1,000.00 Wayland, 5s, bonds.....	4,143 34	
4 \$1,000.00 Lewiston, 5s, bonds.....	4,291 11	
7 \$500.00 Pawtucket, 5s, bonds.....	3,929 30	
	<hr/>	\$16,828 17
Balance cash on hand December 31, 1880,		596 47
		<u>\$17,424 64</u>

CR.

By cash received from October 10, 1877, to December 31, 1880.....	<u>\$17,424 64</u>
--	--------------------

IN COMMON COUNCIL, January 11, 1881.

Read and referred to the Joint Committee on accounts. Sent up
for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 11, 1881.

Read and referred in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

CITY OF LOWELL.

IN COMMITTEE ON ACCOUNTS,
January 21, 1881.

TO THE CITY COUNCIL :

Gentlemen—The Joint Committee on Accounts to whom was referred the report of the Commissioners of Sinking Funds, on the condition of the Sinking Fund for the Reduction of the Loan of 1876, to January 1, 1881, hereby certify that we have examined said account and find the securities to be the same as reported, and all in the hands of John H. McAlvin, Secretary and Treasurer of the Commissioners of Sinking Funds.

Respectfully submitted,

LEVI SPRAGUE,
CHAS. H. RICHARDSON,
ALBERT W. BURNHAM,
Z. D. HALL,
L. J. SMITH,

Joint Committee on Accounts 1881.

IN COMMON COUNCIL, January 25, 1881.

Read and accepted. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 25, 1881.

Read and accepted in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

CITY HALL BUILDING LOT SINKING FUND.

TO THE CITY COUNCIL:

Gentlemen—The Commissioners of Sinking Funds of the City of Lowell, in compliance with Section 5 of Chapter 209 of the Acts and Resolves passed by the General Court of Massachusetts in the year 1875, have the honor to report the amount and conditions of said funds, and the income thereof for the financial year ending December 31, 1880, to wit:

CITY HALL BUILDING LOT SINKING FUND.

The amount standing to the credit of the City Hall Building Lot Sinking Fund on the thirty-first day of December, 1880, was.....

\$7,000 00

The amount of payments to December 31, 1880, was for the following securities, to wit:

12 \$500.00 Pawtucket 5s, bonds.....	\$6,000 00
Premium.....	720 00
Accrued interest.....	14 17

\$6,734 17

Balance, Cash on hand, December 31, 1880, (of which amount \$265.00 is invested in the Lowell Institution for Savings).....

265 83

\$7,000 00

Respectfully submitted,
JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds.

IN COMMON COUNCIL, January 11, 1881.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 11, 1881.

Read and referred in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

CITY OF LOWELL.

IN COMMITTEE ON ACCOUNTS,
January 21, 1881.

TO THE CITY COUNCIL :

Gentlemen—The Joint Committee on Accounts to whom was referred the report of the Commissioners of Sinking Funds, of the condition of the City Hall Building Lot Sinking Fund to January 1, 1881, hereby certify that we have examined said account and find the securities to be the same as reported, and all in the hands of John H. McAlvin, Secretary and Treasurer of the Commissioners of Sinking Funds.

Respectfully submitted,

LEVI SPRAGUE,
CHAS. H. RICHARDSON,
ALBERT W. BURNHAM,
Z. D. HALL,
L. J. SMITH,

Joint Committee on Accounts 1881.

IN COMMON COUNCIL, January 25, 1881.

Read and accepted. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 25, 1881.

Read and accepted in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

FUND FOR THE REDUCTION OF THE ORDINARY CITY DEBT.

TO THE CITY COUNCIL :

Gentlemen—The Commissioners of Sinking Funds of the City of Lowell, in compliance with section 5 of chapter 209 of the Acts and Resolves passed by the General Court of Massachusetts in the year 1875, have the honor to report the amount and condition of said funds and the income thereof for the financial year ending December 31 1880, to wit :

FUND FOR THE REDUCTION OF THE ORDINARY CITY DEBT.

The amount standing to the credit of the
Fund for the Reduction of the Ordinary
City Debt on the thirty-first day
of December, 1880, was.....

\$39,743 70

The amount of payments to December 31,
1880, was for the following securities,
to wit :

8	\$500.00 Pawtucket, 5s, bonds.....	\$4,000 00
	Premium on above.....	480 00
	Accrued interest on above.....	40 00
12	\$500.00 Pawtucket, 5s, bonds.....	6,000 00
	Premium on above.....	750 00
	Accrued interest on above.....	60 00

<i>Amount carried forward,.....</i>	<u>\$11,330 00</u>
-------------------------------------	--------------------

Amount brought forward, \$11,330 00

Balance cash on hand December 31, 1880,
of which amount \$142.00 is invested
in the Mechanics Savings Bank in
Lowell, and \$28,271.70 is on deposit
in the Appleton National Bank in
Lowell, with interest at the rate of
three per cent. per annum.

28,413 70

\$39,743 70

Respectfully submitted,

JACOB ROGERS,

J. F. KIMBALL,

E. W. HOYT,

Commissioners of Sinking Funds.

IN COMMON COUNCIL, January 11, 1881.

Read and referred to the Joint Committee on Accounts. Sent up
for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 11, 1881.

Read and referred in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

CITY OF LOWELL.

IN COMMITTEE ON ACCOUNTS,
January 21, 1881.

TO THE CITY COUNCIL :

Gentlemen—The Joint Committee on Accounts to whom was referred the report of the Commissioners of Sinking Funds, of the condition of the Fund for the Reduction of the Ordinary City Debt, to January 1, 1881, hereby certify that we have examined said Fund Account, and find the securities to be the same as reported, and all in the hands of John H. McAlvin, Secretary and Treasurer of the Commissioners of Sinking Funds.

Respectfully submitted,

LEVI SPRAGUE,
CHAS. H. RICHARDSON,
ALBERT W. BURNHAM,
Z. D. HALL,
L. J. SMITH,

Joint Committee on Accounts 1881.

IN COMMON COUNCIL, January 25, 1881.

Read and accepted. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 25, 1881.

Read and accepted in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

HAPGOOD WRIGHT CENTENNIAL TRUST FUND.

TO THE CITY COUNCIL :

Gentlemen—The Commissioners of Sinking Funds of the City of Lowell, have the honor to report that they have assumed the care and control of the Hapgood Wright Centennial Trust Fund, and report the condition and income of said Fund, for the financial year ending December 31, 1880, to wit :

The amount standing to the credit of the Hapgood Wright Centennial Trust Fund on the thirty-first day of De- cember, 1880, was.....		\$1,248 79
Of this amount there was received previous to January 1, 1880.....		\$1,188 79
Received in 1880, for interest on invest- ments	60 00	
		<u>\$1,248 79</u>
Said Fund is invested in the following securities, to wit :		
One \$1,000.00 Lawrence, 6s, bond.....	1,000 00	
Premium.....	116 75	
Accrued interest.....	23 33	
		<u>\$1,140 08</u>
<i>Amount carried forward</i> ,.....		\$1,140 08

<i>Amount brought forward</i>	\$1,140 08
Balance cash on hand December 31, 1880, (of which amount there is invested in the City Institution for Savings \$78.71, and in the Lowell Institution for Savings \$30.00).....	108 71
	<hr/>
	<u>\$1,248 79</u>

Respectfully submitted,

JACOB ROGERS,

J. F. KIMBALL,

E. W. HOYT,

Commissioners of Sinking Funds.

IN COMMON COUNCIL, January 11, 1881.

Read and referred to the Joint Committee on Accounts. Sent up
for concurrence.

DAVID CHASE,

Clerk.

IN BOARD OF ALDERMEN, January 11, 1881.

Read and referred in concurrence.

SAMUEL A. McPHETRES,

City Clerk.

CITY OF LOWELL.

IN COMMITTEE ON ACCOUNTS,
January 21, 1881.

TO THE CITY COUNCIL :

Gentlemen—The Joint Committee on Accounts to whom was referred the report of the Commissioners of Sinking Funds, on the condition of the Hapgood Wright Centennial Trust Fund, to January 1, 1881, hereby certify that they have examined said Fund Account and find the same as to be as reported, and all in the hands of John H. McAlvin, Secretary and Treasurer of the Commissioners of Sinking Funds.

Respectfully submitted,

LEVI SPRAGUE,
CHAS. H. RICHARDSON,
ALBERT W. BURNHAM,
Z. D. HALL,
L. J. SMITH,

Joint Committee on Accounts 1881.

IN COMMON COUNCIL, January 25, 1881.

Read and accepted. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 25, 1881.

Read and accepted in concurrence.

SAMUEL A. McPHETRES,
City Clerk.

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ANNUAL REPORT
OF THE
Directors of the City Library
OF THE
CITY OF LOWELL,
FOR THE YEAR 1880.



LOWELL MASS.:
STONE, BACHELLER & LIVINGSTON, 18 JACKSON STREET.
1881.

CITY OF LOWELL.

IN COMMON COUNCIL, December 28, 1880.

Read and sent up to the Board of Aldermen.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, December 28, 1880.

Received and Read.

SAMUEL A. MCPHETRES,
City Clerk.

REPORT.

DIRECTORS' ROOM, CITY LIBRARY, }
LOWELL, December 27, 1880. }

To the City Council of Lowell:

The Board of Directors of the City Library have the honor to submit the following report for the year 1880:

RECEIPTS.

Balance undrawn January 1, 1880,	\$ 275 74
Appropriation,	3,500 00
Dog tax transferred to Library account,	1,619 37
Subscriptions,	953 00
Catalogues and Supplements,	40 65
Fines,	37 95
Lost books paid for,	7 96
Old paper,	60
Total receipts,	\$6,435 27

EXPENDITURES.

Salaries,	\$1,992 00
Rent and heating,	1,400 00
Gas,	157 36
<i>Amounts carried forward,</i>	\$3,549 36
	\$6,435 27

REPORT OF THE

<i>Amounts brought forward,</i>		\$3,549 36	\$6,435 27
Books for circulation,		1,526 83	
Blank books and stationery,		37 11	
Binding,		222 64	
Printing and advertising,		47 25	
Postage and expressage,		15 34	
Ice for season of 1880,		24 00	
Furniture and repairs,		50 67	
Manilla paper,		3 50	
Fare to Boston (book sale),		1 25	
Cleaning,		3 20	
Work on card-catalogue,		816 95	
Balance undrawn,		137 17	
			<hr/>
			\$6,435 27

CONDITION OF THE LIBRARY.

Volumes added to replace in 1880,	81
New volumes added by purchase,	1,036
Volumes donated,	86
Total volumes added, 1880,	1,203
Total volumes in Library,	22,348
Volumes lost and not paid for,	8
Estimated value of same,	\$4.00
New subscribers,	553
Non-resident subscribers,	25
Whole number of subscribers, 1880,	1,881
Books delivered for home use,	87,452
Daily average,	202

The operations of the City Library during the past year have been of more than usual interest. The need of a new catalogue, constructed upon a scientific plan, rendering available for working purposes in the hands of literary and professional persons the large stock of good material which the Library

contains, had long been felt. The present catalogue was made in 1873, since which time there have been three supplements. The larger part of the best reading material has been added since the large catalogue was made. Moreover, all the catalogues and supplements hitherto made have been constructed upon the old alphabetical plan which is now hardly ever used in modern catalogues.

To be of service a catalogue should enable the reader to determine in a short time all the material which it can furnish in illustration of any given subject. This information can only be furnished by a class catalogue, setting forth in analytical and systematic order the various subjects of human knowledge and study, and giving, under each heading, the list of books which treat upon that particular subject.

To accomplish this object, the first thing to be done is to adopt a system of classification of the departments of knowledge. The next step is to prepare lists of all books in the library pertaining to each of these subjects.

To meet the increasing demand of patrons, and to render the library of more use to the city, the board of directors resolved early in the year to prepare a catalogue according to the most approved modern methods. It was decided to use the Dewey

system, so-called, as a guide to the work to be performed. A committee, consisting of Messrs. Seward, Greenhalge, Greene and Elliott was appointed to supervise the work.

The first duty was to enlarge the analytical scheme of Mr. Dewey (the Amherst College librarian), and adapt it to a wider range of subjects, by divisions of the species. This work was accomplished by the committee; and the next duty was to prepare copies of the title-pages of all the books in the Library in two forms: one to be used in making the subject-catalogue and the other in making an author-catalogue. The board wisely chose to have these copies made upon cards which can always be preserved in the Library for a perpetual card-catalogue. A series of drawers will be arranged and labelled in systematic form, and in the drawer corresponding to any particular heading will be placed the cards which pertain to that subject. All books which are added at any subsequent period will have analogous cards, which can at any time be placed in their proper places in these drawers, thus enabling a patron to determine, any day, what works upon any subject are contained in the Library.

The task of copying the title-pages upon cards was assigned to young gentlemen well prepared by

education and good judgment to execute the work committed to their charge. Their whole work has been under the close and careful supervision of the chairman of the committee, who has spent much of his time in the Library for the past six months. The librarian, also, from his acquaintance with books, has rendered constant and invaluable services to the copyists in many ways. It is intended that the work shall be thoroughly done. Every card is intended to contain the full title of some book, including the date and place of publication, the name of the publisher and the size of the book. The name of the author is given in full, pseudonyms being always accompanied by the true name of the author. So careless have been many writers in regard to their names that it is often a matter of great difficulty to ascertain the true name. To such an extent has this kind of carelessness been carried, that the name of the same author is sometimes given differently in his different works. In the case of old books, it is often difficult to determine the place of publication or the name of the publisher. To ascertain the authorship of anonymous books is often impossible, usually difficult. In all these particulars, the librarian has rendered such service to the copyists as can only be appreciated by those who have such work to do.

In copying the titles two cards are always made and sometimes more than two. Every book has an author-card to be used for the author-catalogue, and at least one subject-card, to be used for the subject-catalogue. It often happens that a book treats so copiously of more than one subject that two or more subject-cards are made, thus classing the book in several sections. An example of such a work would be a book discussing the relations between philosophy and theology. In such a case, two subject-cards would be made, one to be placed in the list of philosophy, the other under some subject in theology; for students making researches in either department would wish to make the acquaintance of such a book. It would belong alike to both subjects. A volume of the Massachusetts Historical Society's collection might require twenty subject-cards, for each subject treated in that volume would be independent of each other subject, and would be treated like a separate volume. It is obvious that much skill and judgment are required by copyists to determine how many of these extra subject-cards are required, and how to phrase them. It may be properly mentioned, in this connection, that the gentlemen who have been engaged upon this work have performed their duties in such a manner as to

merit the hearty approval of those who have had the work in charge. Here again the services of the librarian have been of great value to the copyists.

The committee have been especially careful that the cards should be neatly and accurately written. Scrupulous care has been paid to syntax, orthography, chirography and punctuation. In so many thousand cards some errors must inevitably occur, but it is believed that the work thus far is as well done as could be expected by the most exacting. It is highly probable that much of the work which has been done is much better than work of the same kind in other libraries, because of the intelligence of the writers and the constant supervision of the committee and librarian.

The copying of the titles is now about three-quarters done. Owing to a lack in the appropriations the force of copyists was dismissed in November, one only being retained, that the work being gratuitously done by the chairman of the committee might not come to a stand-still.

The next thing to be done is to finish the copying of the titles. The next duty is the analytical classification of these titles according to subjects. This is a work which will require great care, and will probably be done by the committee and librarian.

A desk upon which the work is to be done has been made, with pigeon-holes conveniently arranged for purposes of classification. Over the desk will be hung a mural chart, displaying the classification of the subjects of knowledge, according to the scheme adopted.

This scheme will comprise about 1,500 subjects. After the cards are classified, they will be temporarily placed in boxes which are labelled according to the subject represented. These boxes are already prepared and marked. Eventually it is proposed to place them in a permanent case of drawers which shall be prepared and marked for the purpose.

After they have been properly placed in their permanent places, an additional catalogue will be prepared containing all the authors whose works are in the library, arranged in alphabetical order, with a list of his works, under each author. For the benefit of any who do not understand the system of classification, an alphabetical list of all the subjects will be given. The system is easy to understand, but the alphabetical index will enable any one to use it.

Such a catalogue will be of incalculable benefit to working *literati*, but it will be of great benefit to all; even one who reads novels only will find it far better for his purpose than the present clumsy

catalogue. How long it will take to do this work cannot be told. It is something which cannot be hurried to advantage. Some work can be hurried, but this is not true generally of literary labor, if any regard is paid to accuracy and value. The most that can be promised is that there shall be no unreasonable delay. To accomplish this much-needed work, and to complete that which has been begun already, an appropriation of \$3,800.00 is needed in addition to the customary library appropriation.

The directors ask for this appropriation, in full confidence that the city will be richly repaid for it. While no department of our municipal government should be neglected, and while all have important interests to be considered, no opportunity for enlightening and educating the public should be lost; and every means of securing such desirable ends should be improved. A well-ordered and well-administered library can do much in this direction.

And this work can be done much more readily and surely if the catalogue is made to answer the many questions which are reserved for the librarian, and which, with the multitude of duties that crowd upon him, he cannot find the time to answer.

A conversation at the desk in library hours, with the librarian, would be very much like making a

social call upon a banker in business hours. Many questions are asked of a librarian which he would be glad to answer, and many which he does answer, but he cannot care for the wants of his patrons, and also determine in each case what each one had better read. This matter of a selection, however, is a very important one; and the library will be of almost inestimable service when its books shall be catalogued in a scientific manner. Then the catalogue will answer, every time, the question—"What have you got upon this or that subject?" It will not only answer the question more fully than any librarian with finite memory could be expected to do; but it can be consulted at times when the librarian is too busy to spend his time in conversation.

The ordinary work of the Library has been about as usual for the past year. At the beginning of the year, Mr. Marshall H. Clough was reëlected librarian for the eleventh time, to succeed Mr. Joseph A. Green, who had served as librarian the previous year. Mr. Clough brought to this work the ripe experience of many years of similar service, and his knowledge of the Library and of its workings, and especially his familiarity with the relations of the various authors to the various books in the Library has caused his

presence to be of great value in the preparation of the new catalogue.

The reading-room has been used and the reference books consulted much more than heretofore. Public documents, like the Congressional Globe, and the departmental reports of the government, the Patent Office Gazette, and the state and municipal reports are frequently consulted. Many valuable books have been presented to the Library during the year. The full list of donors is given as an appendix to this report. We cannot here note the list in detail, but it is fitting that we refer to two very valuable donations. The first, that of Hon. Jefferson Bancroft, of this city, who presented complete, bound sets of the reports of the State Board of Education and of the Commissioners of Agriculture. Complete sets of both reports are very scarce and valuable. The education reports include the valuable reports of Horace Mann and Edward Everett. The second donation which we shall notice was by S. Whitney Phoenix, Esq., of New York City, who presented the Genealogy of the Whitney family, in three superbly-bound quarto volumes.

Many valuable works have been added to the Library during the past year. Many which have been published for years but which had never found

their way to our shelves have been added, such as "Audubon's Birds of America," "Hogarth's complete works" (folio edition), "The Rime of the Ancient Mariner," etc. In addition to many works of fiction, the following have been put upon the shelves in the various departments of knowledge :

IN PHILOSOPHY :

The Emotions. McCosh.
 Physiology and Pathology of Mind. Maudsley.
 Problems of Life and Mind. Lewes.
 Perception of Space and Matter. Walter.
 Modern Philosophic Thought. Encken.
 History of Philosophy. Tennemann.
 Powers of the Human Mind. Reid.
 Causation and Freedom in Willing. Hazard.
 Chips from a German Workshop. Müller.

IN THEOLOGY :

The Bible for Learners. Oort and Hooykass.
 Commentary on the Epistles of St. Paul. Shedd.
 Commentary on the New Testament. Schaff.
 The Influence of Jesus. Brooks.
 Lost Forever. Townsend.
 The Christian Preacher, Yale Lectures, 1879-'80. Crosby.
 History of the Catholic Church in the United States. Hecker.
 Studies in the New Testament. Robinson.
 Thoughts on Great Mysteries. Faber.
 Natural Science and Religion. Gray.
 Oxford Sermons. Abbott.
 Old Faiths in New Lights. Smyth.
 Sacrifice of the Mass and Catholic Worship. Oakeley.

- Swedenborg and the New Church. Reed.
 Faith and Character. Vincent.
 Logic of Christian Evidences. Wright.
 Sermons preached before the University of Oxford. Liddon.
 Mythology of the Aryan Nations. Cox.
 Fragments, Religious and Theological. Curry.
 Commentary on the Gospel of St. Luke. Godet.
 The New Testament, Illustrated from Photographs and
 Sketches taken on the Spot.
 Miracles, Past and Present. Mountford.
 Conference Papers. Hodge.
 Faith and Rationalism. Fisher.
 Notes on the Miracles of Our Lord. Trench.
 Philosophy of Religion. Caird.
 Conflict of Christianity with Heathenism. Ulhom.
 Romanism as it is. Barnum.
 Story of Religion in England. Herford.
 Origin and Growth of Religion, Egypt. Renouf.
 Institutes of Ecclesiastical History. von Mosheim.
 Modern Scottish Pulpit.
 Authorship of the Fourth Gospel. Abbott.
 Three Phases of Modern Theology. Allen.
 The Apocrypha. Lange's Commentaries.
 On the Being of God. Ellicott.
 The Four Gospels with Notes. Folsom.
 The Holy Bible in the Irish Language.
 Commentaries on the Epistles. Ellicott.
 Propagation of Christianity among the Heathen. Brown.
 Divinity of Our Lord. Liddon.
 Acts and Monuments of the Church. Foxe.

IN SOCIAL SCIENCE :

- History of the English People. Green.
 Civilization of the Period of the Renaissance in Italy.
 Bueckhardt.

- China, its Laws, Manners and Customs. Gray.
Fifty Years of the English Constitution. Amos.
Brigand-Land in Italy. Maffei.
Notes on Railroad Accidents. Adams.
History of American Politics. Johnston.
Progress and Poverty. George.
Communism and Socialism. Woolsey.
On Civil Liberty and Self-Government. Lieber.
Free Trade in Money the Cause of Fraud, Poverty and
Ruin. Whipple.
Chinese Immigration. Williams.
Labor, Cook.
The Switzers. Dixon.
The State of Prisons. Wines.
Financial History of the United States from 1774 to 1789.
Bolles.
Political Economy in Europe. Blanqui.
Action of the United States Tariff. Tylor.
Certain Dangerous Tendencies in American Life.
Practical Political Economy. Price.
Socialism. Cook.
Federation of the Railroad System. Adams.
The United States Government, its Organization, etc.
Lamphere.
Homicide, North and South. Redfield.
Chapters on Prisons and Prisoners. Kingsmill.
Mission of the North American People. Gilpin.
The Criminal Prisons of London. Mayhew.
Constitutional Equality a Right of Woman. Claflin.
Sketches of Army Life in Russia. Greene.
War-Ships and Navies of the World. King.
History of Democracy. Capen.
The College Book.
Constitutional History of England. Stubbs.

IN LAW :

- Treatise on the Separate Property of Married Women. Wells.
Judge and Jury. Abbott.
Handy Book on Property Law. St. Leonards.
Famous Trials. Morse.
Facts, Failures and Frauds (English Trials.)

IN LITERATURE :

- The Students' Shakespeare. Fox.
The Englishman and the Scandinavian, a Comparison of
their Literature. Metcalfe.
Shakespeare's Complete Works. Knight's edition.
Four Centuries of English Letters. Scoones.
Bibliography of the State of Ohio. Thomson.
Works of Robert Burns.
Familiar Words: a Quotation Handbook. Friswell.
History of the Boston Courier. Buckingham.
Collections of the Writings of Daniel DeFoe.
Putnam's Hints for Home Reading.
Bibliographer's Manual of English Literature. Lowndes.
Gleanings from a Literary Life. Bowen.
Works of John Evelyn.
Webster's Dictionary—latest edition.
Worcester's Dictionary—latest edition.
Liddell and Scott's Greek Lexicon—latest edition.
Andrews' Latin Lexicon—latest edition.
History of the English Language. Shepherd.
The Art of Speech. Townsend.
German Literature. Hosmer.
English Literature. Morley.
Encyclopædia Britannica, ninth edition.
The Reader's Handbook of Allusions. Brewer.
Letters and Writings of Hector Berlioz.

Origin of the Homeric Poems. Bonitz.
 Study of Shakespeare. Swinburne.
 Masterpieces of English Literature. Swinton.
 Virgil in English Prose. Conington.
 King Lear. Furness' edition.
 Dramatic Works of Lessing.
 Shakespeare's Plays. Rolfe's Edition.
 Critical Essays and Literary Notes. Taylor.
 Studies in the Literature of Northern Europe. Gosse.
 Shakespeare, a Critical Study of his Mind and Art. Dowden.
 Classical Writers Series.
 Congregationalism as seen in its Literature. Dexter.
 Every Day English. White.
 Cyclopædia of Wit and Humor. Burton.
 Studies of the Greek Poets. Symonds.
 American Newspaper Directory.

IN POETRY :

Poetical Works of Longfellow, quarto illustrated edition.
 Poems of Stoddard.
 Along the Way. Dodge.
 Thou and I. Tilton.
 Vignettes in Rhyme. Dobson.
 Virgil. Translated by Dryden.
 Yesterday, To-day and Forever. Bickersteth.
 The English Poets.
 Songs of the Springtide. Swinburne.
 Eastman's Poems.
 Ultima Thule. Longfellow.
 New and Old. Symonds.
 Agatha. Colby.
 The Iron Gate. Holmes.
 Campbell's Poetical Works.
 The Lusiad. Camoëns.

Rogers' Poetical Works.

Ballads from the German. Boyd.

Lyra Germanica (Hymns from the German.)

IN ART :

Art in America. Benjamin.

Great Lights in Sculpture and Painting.

The Print Collector. Maberly.

America Illustrated. Williams.

Art at Home Series. Ed. Mrs. Oliphant.

Practical Keramics. Janvier.

Handbook of Drawing. Walker.

Renaissance of Art in France. Pattison.

Practical Taxidermy. Batty.

Artistic Embroidery. Church.

Masters of Genre Painting. Wedmore.

Handbook to the Public Picture Galleries of Europe.
Thompson.

Examples of Household Taste. Smith.

Porcelain Painting. McLaughlin.

Charcoal Drawing. Robert.

Gallery of Pictures by the First Masters. Cunningham.

Lectures on Art. O'Neil.

Catalogue du Cabinet de Tableaux de l'Abbé du Jardin.

Lectures on the Principles and Practice of Perspective. Wood.

National Portrait Gallery of Distinguished Americans. Her-
ring and Longacre.

Blake's Illustrations of the Book of Job.

Ancient Unedited Monuments. Millengen.

Coleridge's Rime of an Ancient Mariner. Illustrated by Noel
Paton.

Hogarth's Works. Complete folio edition.

Audubon's Birds. American folio edition.

Life and Works of Gilbert Stuart.

History of the Science and Art of Music. Challoner.

IN SCIENCE :

Agassiz's Contributions to the Natural History of the United States.

Zoölogy. Packard.

The Crayfish. Huxley.

Field Naturalist's Handbook. Wood.

How to Use the Microscope. Beale.

Cyclopædia of Mechanics. Appleton's.

Science for all. Brown.

Botany. Bessey.

Treatise on Astronomy. Norton.

Familiar Wild Flowers. Hulme.

Rural Bird Life. Dixon.

Insects Abroad. Wood.

Tryon's Manual of the Mollusca.

IN USEFUL ARTS :

Theory and Calculation of Iron Bridges and Roofs. Ritter.

Catechism of the Steam Engine. Edwards.

Saws, their History, Manufacture, Patents, etc. Grimshaw.

Cyclopædia of Practical Receipts. Cooley.

Elements of Technology. Bigelow.

Curiosities of Industry and Applied Science. Dodd.

On Printing and Type Founding. Hiansard.

Permanent-Way Rolling Stock and Technical Working of Railroads. Couche.

Ship-Building in Iron and Wood, and Steamships. Murray.

Practical Rabbit Keeper.

Practical Pigeon Keeper. Wright.

Young Folks' Cyclopædia of Common Things.

Success with Small Fruits. Roe.

Practical Camellia Culture. Halliday.

Every Horse-Owner's Cyclopædia. Walsh.

Treatise on Milch Cows. Guenon.

Our Garden Friends and Foes. Wood.

Bailey's Book on Ensilage.

IN MEDICINE AND HYGIENE.

Health Primer Series.

Pharmacographia: Principal Drugs of Vegetable Origin in
Great Britain and British India.

Woman's Medical Companion. Garbit.

Pharmacology and Therapeutics. Brunton.

Anatomy, Descriptive and Surgical. Gray.

Health for Women. Taylor.

A Text Book of Physiology. Foster.

Management of Children in Sickness and in Health. Hale.

The Hair, its Growth, Treatment, etc. Leonard.

Health by Exercise. Taylor.

On Slight Ailments. Beale.

On Dental Art. Maury.

On Dental Medicine and Surgery. Bond.

First Principles of Medicine. Billing.

On Pyæmia. Braidwood.

Diseases of the Nervous System. Hayes.

Treatment of the Insane without Mechanical Restraints.
Conolly.

Pathology of the Reproductive Organs. Trall.

On the Internal Use of Water for the Sick. Meigs.

IN HISTORY:

Administration of India, 1859-'68. Prichard.

Kettell's History of the Rebellion.

Military Operations in Kaffraria. Cathcart.

Campaigns of Stonewall Jackson, 1861-'62. Allan.

History of Maryland. Scharf.

Chronicles of Baltimore. Scharf.

Blair's Chronological Tables.

Rosse's Index of Dates.

History of Egypt under the Pharaohs. Brugsch.

History of North Carolina. Moore.

- History of Middlesex County, Massachusetts.
- Exploration of the World. Verne.
- Historical Atlas, from the Dawn of History, and Historical Chart. Labberton.
- History of the Flag of the United States. Preble.
- Homes of Our Forefathers. Whitefield.
- In France with the Germans. Corvin.
- History of Scotland. Robertson.
- History of Florence. Trollope.
- Beech's Indian Miscellany.
- Campaign of the Army of Virginia. Gordon.
- History of Our Own Times. McCarthy.
- The North Americans of Antiquity. Short.
- The Huguenots in the Nipmuck Country. Daniels.
- Rise of the Huguenots of France. Baird.
- Army of Northern Virginia (Confederate.) Jones.
- Annals of the War. By Leading Participants.
- Cradle of the Confederacy. Hodgson.
- Lin, or Jewels of the Third Plantation.
- Administration of John DeWitt. Geddes.
- The Nineteenth Century. Mackenzie.
- History and Traditions of Marblehead. Roads.
- New England By-gones. Arr.
- True Story of the Exodus of Israel. Brugsch.
- History of Grafton, Mass. Pierce.
- Germany, Past and Present. Baring-Gould.
- History of Greece. Cox.
- History of England. Bright.
- History of the City of New York. Booth.
- Genealogy of the Whitney Family of Connecticut.
- Our Early American Ancestors. Hotten.
- The Year of Battles: Franco-German War. Brockett.
- Cilicia and its Governors. Barker.
- Court and Times of James the First.

Sixty-Nine Years at the Court of Prussia. Von Voss.

The Holy Roman Empire. Bryce.

Polydore Vergil's History of England.

IN BIOGRAPHY :

Fleetwood's Life of Christ.

Life of Gladstone. Smith.

Autobiography and Correspondence of Mrs. Delaney.
Woolsey.

Memoirs of Madame de Rémusat.

Memoirs of Prince Metternich. Napier.

English Men of Letters.

Life of Alexander Duff. Smith.

Life and Letters of Madame Bonaparte. Didier.

History of Napoleon I. Laufrey.

Reminiscences of Levi Coffin.

Memoir of Henry Armitt Brown. Hoppin.

English Actors. Baker.

Life of Farragut, with his Journal and Letters.

Erasmus Darwin. Krause.

Reminiscences of William E. Channing. Peabody and
Brooks.

Sister Dora (Pattison.) Lonsdale.

Elihu Burritt. Northend.

William Lloyd Garrison. Johnson.

Life and Work of Mary Carpenter.

Life of Victor Emmanuel II. Godkin.

Life of Catherine and Craufurd Tait.

Life of Henry P. Haven.

Life of Zachariah Chandler.

Life and Writings of Henry Thomas Buckle. Huth.

Parton's Life of Franklin.

Literary Women of the South. Forrest.

Machiavelli and his Times. Villari.

Life of his Royal Highness the Prince Consort. Martin.

- St. Elizabeth of Hungary. Montalembert.
 Memorials of Frances Ridley Havergal.
 Public Life and Services of Thomas F. Bayard. Spencer.
 Life and Letters of Horace Bushnell.
 Life of W. A. Muhlenberg.
 Eminent Israelites of the Nineteenth Century. Morais.
 Life of John Van Lear McMahon.
 Lives of Senator Garfield and of General Hancock. By
 several authors.
 Life of Charles Hodge.
 The Dramatic List—The British Stage. Pascoe.
 Sages and Heroes of the Revolution. Judson.
 Judges of England 1066—1870. Foss.
 Life of Robert Stephenson. Jeaffreson.
 Life and Times of Daniel DeFoe.
 Lives of Eminent and Illustrious Englishmen. Cunningham.
 Records of Living Officers of the United States Navy
 and Marine Corps. Hamersley.
 Eccentric Male and Female Biography.
 Philip II. of Spain. Gayarre.
 Memoir of the Life and Writings of John Evelyn. Bray.
 People's Book of Biography. Parton.
 Public and Private Life of George III. Huish.

OF TRAVEL AND DESCRIPTION :

- Journey Through the Upper Provinces of India. Heber.
 New Colorado and the Santa Fe Trail. Hayes.
 Three Years in California. Borthwick.
 Colorado. Fossett.
 My Pilgrimage to Eastern Shrines. Bush.
 The Highlands of Ethiopia. Harris.
 Sea Nile, the Desert and Nigritia. Churi.
 Telegraph and Travel between England and India.
 Goldsmid.

- Zig-zag Journeys in Classic Lands. Butterworth.
The American in Iceland. Kneeland.
Pompeiana. Gell.
Eastward, the Holy Land. Macleod.
Italy. Lady Morgan.
Travels in South-eastern Asia. Malcom.
A Long Vacation in the Argentine Alps. Johnson.
Over the Borders of Christendom. Creagh.
Meyer's Universum: Views of Remarkable Places.
Boy Travellers in the Far East. Knox.
Brazil, the Amazons and the Coast. Smith.
Alo'ha, the Sandwich Islands. Chaney.
Camps in the Caribbees. Ober.
Rhine Roamings. Hill.
Arctic Voyages. Nordenskiöld.
Cyprus as I saw it in 1879. Baker.
Sunshine and Storm in the East. Mrs. Brassey.
A Forbidden Land: Corea. Oppert.
A Tramp Abroad. "Mark Twain."
Alaska. Jackson.
A Lady's Life in the Rocky Mountains. Bird.
Search for Winter Sunbeams. Cox.
Fourteen Months in Canton. Gray.
Loiterings in Pleasant Places (Europe.) Terhune.
Inner Life of Syria and the Holy Land. Burton.
Danish Greenland. Rink.
White and Black (Races): a Visit to the United States.
Campbell.
Travels and Explorations in Bible Lands. De Haas.
Around the World with General Grant. Young.
Outlying Europe and the Nearer Orient. Moore.
Through Brittany. Macquoid.
Pen Pictures of Europe. Peake.

The Board acknowledge the generosity of the present and past City Councils in their appropriations for this department, and beg the incoming government to consider the great importance of the work in hand and to be as liberal as the interests of the city will warrant.

All of which is respectfully submitted.

FREDERIC T. GREENHALGE,

Chairman.

E. A. THISSELL,

JAMES WATSON,

GEORGE M. ELLIOTT,

J. L. SEWARD,

J. M. GREENE,

FREDERICK TAYLOR,

E. W. HOYT.

APPENDIX.

LIST OF DONORS TO THE LIBRARY, 1880.

	Volumes.	Pamph.
Allen, Nathan, M. D., Lowell,	1	1
American Unitarian Association, Boston, . . .		13
Ayer, Frederick F., Esq., Lowell,	1	
Bancroft, H. L. & Co., San Francisco, catalogues.		
Bancroft, Hon. Jefferson, Lowell,	55	2
Barnes, A. S., Esq., New York,		1
Barnes, T. A., Esq., New Haven, Conn., . . .		1
Bedford, Clarke & Co., Chicago,	1	
Bell, George & Sons, London,		1
Benet, Brig. General S. V., U. S. A.,	1	
Bicknell, Comstock & Co., New York,		1
Bigelow Free Library, Clinton,		1
Boston Public Library,		4
Boston University,		1
Bronson Library, Waterbury, Conn.,		3
Brookline Public Library,		1
Buffalo Young Men's Association, N. Y., . . .		1
Chapin, Henry D., Esq., Chicago,		1
Chicago Public Library, Chicago,		1
Clarendon Press, Oxford, Eng.,		1
Clough, M. H.,		2
Cobden Club, London,	1	2
Collett, Hon. John, Indianapolis,	1	
Concklin, Hon. William A., New York,		1
Duganne, Rev. H. C., Lowell,		1
Ellis, George H., Esq., Boston,		1
Elliott, George M., Esq.,		2
Estes & Lauriat, Boston, catalogues, etc.		
Fall River Public Library,		1
Foster, E. W., Esq., Chicago, papers.		
Harper Brothers, New York, catalogues,		
Hartford Library Association, Conn.,		2
Haverhill Public Library,		1
Hawkins, Dexter A., Esq., New York,		1
Hodgson, William, Esq., Philadelphia,	4	
Houghton, Mifflin & Co., Boston, catalogues, etc.		
Houghton, Osgood & Co., Boston, catalogues, etc.		
Howard, Challen & Co., Philadelphia, papers and .		2
Jenkins, E. M., Esq., New York,		1
King, Moses, Esq., Cambridge, 1 paper.		
Kinsman, John, Esq., Penzance, Cornwall, . . .		1
Kite, William, Esq., Germantown, Penn., . . .		1
Lawrence Public Library,		3
Lippincott, J. B. & Co., Philadelphia, catalog's, etc.		2
<i>Carried forward,</i>	65	58

LIST OF DONORS TO THE LIBRARY, 1880.—*Continued.*

	Volumes.	Pamph.
<i>Brought forward,</i>	65	58
Lockwood, Brooks & Co., Boston, catalogues, etc.		
Lothrop, D. & Co., bulletins, etc.		
Lynn Public Library,		1
Madden, Jerome, Esq., San Francisco,		1
Manchester, Rev. L. C., Lowell,	1	
Manchester (N. H.) City of,	1	
Marden, George A., Esq., Lowell,	1	
Massachusetts, State of,	4	
Mercantile Library Association, New York, . .		1
Mercantile Library Association, San Francisco, .		1
Milwaukee Public Library, Milwaukee,		1
Morgan, H. H., Esq., St. Louis,		1
New Bedford Public Library,		1
Newburgh Free Library, N. Y.,	2	
Newton Free Library,		1
Parker, Mrs. Maria Hildreth, Lowell,	1	
Peabody Institute, Mass.,		1
Pennington, John, & Sons, Philadelphia,		1
Philadelphia Library Co., Philadelphia,		1
Phoenix, Hon. S. Whitney, New York,	3	
Porquet, Ch., Paris, catalogues.		1
Portland Public Library, 1 paper (report).		
Princeton Review,		1
Providence Public Library,		2
Quaritch, Bernard, London, catalogues.		
Readers' and Writers' Economy Co., Boston, . .		1
Reinwald, C., et Cie., Paris,		1
Russell, Hon. William A.,	2	2
St. Louis Public School Library, Mo.,		4
Scribner's, Chas., Sons, New York, catalogues.		
Smith, Alfred Russell, Esq., London, catalogues.		
Smith, Mrs. M. J., Lowell,	2	
Smithsonian Institute, Washington,	1	
Spofford, A. R., Esq., Washington,		1
Springfield Public Library,		1
Stillie, James, Edinburgh, catalogues.		
Stoddart, J. M. & Co., "Review," 10 papers.		
Taunton Public Library, Mass.,		1
Tufts College, Mass., 8 papers,		1
United States, Bureau of Education,		2
“ “ Department of the Interior,	1	
“ “ Patent Office "Gazette,"		53
“ “ Treasury Department,	2	5
Worcester Free Public Library, Mass.,		1
Total,	86	146

ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
CITY OF LOWELL,
FOR THE YEAR 1880.



LOWELL, MASS.:
Printed by Campbell & Hanscom, Morning Times, 22 Central Street.
1881.

CITY OF LOWELL.

IN COMMON COUNCIL, February 22, 1881.

Read and sent to the Board of Aldermen.

DAVID CHASE, Clerk.

IN BOARD OF ALDERMEN, February 22, 1881.

Received and read.

SAMUEL A. McPHETRES, City Clerk.

REPORT.

OFFICE OF BOARD OF HEALTH, }
Lowell, January 31, 1881. }

To the City Council:

GENTLEMEN: In accordance with our duty, we submit this, the third annual report of the Board of Health of the city of Lowell for the year ending December 31, 1880.

During the year the work of the Board of Health has been the same as in previous years—the abatement of nuisances, examination of house drainage, of public buildings, school houses, and tenement houses. Some of the subjects will receive a more extended notice hereafter.

NUISANCES ABATED DURING THE YEAR.

Defective cesspools,	-	-	-	-	-	-	-	5
Overflowing cesspools,	-	-	-	-	-	-	-	3
Defective drainage,	-	-	-	-	-	-	-	78
Filth in cellars,	-	-	-	-	-	-	-	9
Hens kept in cellars,	-	-	-	-	-	-	-	15
Offensive henneries,	-	-	-	-	-	-	-	8
Offal on land,	-	-	-	-	-	-	-	12
Slops and filthy water on surface,	-	-	-	-	-	-	-	42
Privy vaults full,	-	-	-	-	-	-	-	176
Privy vaults leaking,	-	-	-	-	-	-	-	8
Privy vaults offensive,	-	-	-	-	-	-	-	21
Water closets insufficiently supplied with water,	-	-	-	-	-	-	-	10
Water closets not supplied with water,	-	-	-	-	-	-	-	8
Exposed manure,	-	-	-	-	-	-	-	9
Filth in passageways,	-	-	-	-	-	-	-	11

All of the above list of nuisances have required and received careful examination before the regular notices were sent to the responsible parties.

PRIVY VAULTS.

The privy vault system of our City is in the worst possible condition. Hundreds of these vaults are old and decayed. The contents of many of them have leaked out into the ground until the earth about them is thoroughly saturated, and has become a source of the most poisonous miasma. How long this contamination can continue without serious results, is only a question of time. As no city in the past has ever escaped the penalty of such outrageous violation of sanitary laws—notably, the London plague, in the seventeenth century, when 100,000 persons died; and Memphis, in our own time, so we cannot escape.

As no great reform has ever been accomplished without the sacrifice of human life, so the call for this reform has already begun by the "slaughter of the innocents." During the last year, more than six hundred children under 5 years of age have died, nearly one-half of the deaths that have occurred during the year in the city.

Many of these deaths, no doubt, have been caused by the poisonous gas and miasma arising from the saturated earth in places where a very large portion of the children of our city are compelled to live. Most of the vaults connected with tenement houses are emptied by contract for the year. In most cases the contractor removes only what can be dipped out easily, leaving much solid matter in the bottom year after year for an indefinite period. After the vault is cleaned and disinfected, some relief is felt by the tenants and neighborhood, but the same offensive condition soon returns.

There are many locations in the thickly settled portion of the city, where the privy vaults are a public nuisance—notably, between Merrimack and Middle Streets, and in the vicinity of the Post Office, where it is impossible to allow the doors and windows to remain open a large portion of the time during the summer months, on account of the stench and contamination of the whole atmosphere in the vicinity. The Board of Health have long felt that these vaults should be discontinued, and water closets substituted, but have hesitated in ordering them removed on account of the insufficiency of the drainage in the vicinity. Quite a number of privy vaults have been discontinued during the year, and water closets substituted by order of the Board.

The following regulation made by the Board of Health, April 22, 1879, was enforced: "Ordered, that no vault or privy shall be opened between the first day of June and the first day of October, inclusive, without a permit from the Board of Health, nor in any other mode or at any other time than they may direct and appoint. No permit will be granted to empty privy vaults except by an odorless process."

During the time there were removed 410 loads, by the Odorless Company, to the entire satisfaction of this Board.

CONTAGIOUS DISEASES.

January 1st, 1880, the following circular was sent to all of the incorporated manufacturing companies in the city:

"Whereas a few cases of small pox have been reported in several cities and towns of this Commonwealth, you are hereby notified to cause the following clause of the 30th Section, of Chapter 26, of the General Statutes of Massachusetts, to be strictly enforced.

'Incorporated manufacturing companies, * * * * shall, at the expense of their respective establishments or institutions, cause all inmates thereof to be vaccinated immediately upon their entrance thereto, unless they produce sufficient evidence of previous successful vaccination within five years.'

Respectfully,

J. W. B. SHAW, Chairman.

The companies very readily complied, by having all their help vaccinated that could not produce sufficient evidence of previous successful vaccination.

In the early part of May, Dr. Leland reported a child sick with small pox on the Merrimack Corporation. The Board of Health immediately removed the case to the City Hospital, which is always kept in readiness for occupancy by the efficient Superintendent, Mr. Phelps: the case terminated fatally. The mother of the child, who went with it to the Hospital, took the disease, had it light, and soon recovered.

The Board considered the subject of a general vaccination at this time. But as the Board of Health had ordered, only four years before, a general vaccination, it was decided inexpedient at this time. We are continually in danger of having the disease brought here from Canada, owing to the constant arrival of French Canadians from

places that are infected with the disease, and a very large proportion of these having never been vaccinated. The Board decided that the City Physician, who is continually called upon to vaccinate, without pay, children of the French Canadians and others who wish to attend school, should visit and vaccinate all French Canadian families, where they could not produce evidence of previous successful vaccination.

The City Physician subsequently made the following report :

J. W. B. Shaw, Chairman of Board of Health :

Sir—In obedience to instructions from the Board of Health, May 7th, to vaccinate all Canadian French residents in the City of Lowell. I have the honor to report that I have complied with this order, and herewith transmit a list of names, ages, residences and dates of vaccination of those vaccinated by me under the above mentioned instructions. The whole number vaccinated was 1014, of which 930 took vaccina on the first visit. Of the 84 which did not take vaccina, 80 were revaccinated on a second visit, and the result in a large per cent. was successful. The unhappy results which sometimes arise in consequence of vaccination, I am happy to state, have been few, considering the number vaccinated. There were 25 cases came under my observation of tendency to ulceration of the arm at the point of vaccination, 13 cases of eezema of the skin, and one case of well marked erysipelas, which spread over the whole body, but to my knowledge there has been no case with fatal results attributed to vaccination or its equal. With this result we ought to be satisfied, when we consider that a large portion of the number vaccinated were without care, poorly fed, scantily clothed, lived in over-crowded and illy-ventilated tenements, subjected to all sorts of exposure which favor the development of diseases. We encountered more or less oposition, from the fact that parents did not want the care of sore arms on their children which vaccination necessarily produces, rather than from prejudices against vaccination. But the proper argument convinced them of the necessity of it with but one exception, that of Charles H. Beaulien, whose case was submitted to the city marshal and has not yet been acted upon. Respectfully submitted,

E. W. TRUEWORTHY, *City Physician.*

There have been reported to this Board during the year one hundred and eighty cases of scarlet fever, and one hundred and seven, teen cases of diphtheria, reported monthly as follows :

	Scarlet Fever.								Diphtheria.
January,	-	-	-	4	-	-	-	-	8
February,	-	-	-	17	-	-	-	-	7
March,	-	-	-	17	-	-	-	-	13
April,	-	-	-	7	-	-	-	-	3
May,	-	-	-	13	-	-	-	-	9
June,	-	-	-	22	-	-	-	-	9
July,	-	-	-	8	-	-	-	-	8
August,	-	-	-	6	-	-	-	-	5
September.	-	-	-	17	-	-	-	-	9
October.	-	-	-	22	-	-	-	-	9
November,	-	-	-	21	-	-	-	-	13
December,	-	-	-	26	-	-	-	-	24
				<hr/> 180					<hr/> 117

There have been reported, 17 deaths from scarlet fever, and 20 from diphtheria. Most of the cases of scarlet fever have been very light. Many of the patients were not confined to their rooms during their illness. We have good reason to believe that scarlet fever was not the primary cause of several deaths reported as such.

In compliance with the requirement of Chap. 174, of the Acts of 1878, the Chairman of the Board has certified to the cause of death, to the best of his knowledge and belief, of 185 persons who died without an attending physician. Many of these cases have required a visit to their late residence to ascertain the cause of death. The causes ascertained are as follows :

Cholera Infantum,	-	-	-	-	-	-	-	43
Consumption, -	-	-	-	-	-	-	-	43
Infantile, - -	-	-	-	-	-	-	-	22
Old Age, - -	-	-	-	-	-	-	-	12
Measles, - -	-	-	-	-	-	-	-	9
Brain Disease, -	-	-	-	-	-	-	-	8
Croup, - -	-	-	-	-	-	-	-	8
General Debility,	-	-	-	-	-	-	-	6
Whooping Cough,	-	-	-	-	-	-	-	5
Diphtheria, - -	-	-	-	-	-	-	-	4
Teething, - -	-	-	-	-	-	-	-	4
Pneumonia, - -	-	-	-	-	-	-	-	4

Heart Disease, Dysentery, Convulsions, Dropsy, Paralysis, 2 each ; Rheumatism, Cancer, Congestion of the Lungs, Intemperance, Spinal Disease, want of care and unknown, 1 each.

REPORT.

SEWERAGE.

The attention of the Board during the summer was frequently called to the lack or want of drainage of the territory on the southerly side of Westford street. This Board have ascertained that there are more than two hundred dwellings that are occupied by families in that vicinity, that imperatively require sewers immediately. Pawtucketville, also, with nearly the same number of families is entirely without sewerage. In each location nearly every family is supplied with city water, and many of their houses in close proximity.

It is an open question which is the greater nuisance, an open offensive privy vault, or the lack of drainage allowing the sink water and slops to run out on the surface to soak into the earth, polluting the soil and air. While the privy vault may be the more offensive, the lack of drainage is far the more dangerous, and the greater breeder of typhoid fever and other zymotic diseases. Early in the summer the Board petitioned the Board of Aldermen to lay sewers in several streets in that portion of the city known as "Little Canada," for the purpose of giving that locality more complete drainage, and also for the purpose of relieving them of the almost unbearable privy nuisance that exists there.

But the work was not completed until late in the season, too late to require the owners of tenement houses to change the system of privy vaults to water closets, as they will feel compelled to do when the spring opens.

The expenditures of the Board of Health for the year 1880, are as follows:

Paid	J. W. B. Shaw, Chairman,	-	-	-	\$450.00
"	Michael Hoar,	-	-	-	200.00
"	For Bathing Houses,	-	-	-	464.19
"	" Printing and advertising,	-	-	-	28.24
"	" Removing house-dirt, ashes and cleaning back streets,	-	-	-	3,034.16
"	" Hospital supplies,	-	-	-	147.28
"	" Vaccination points,	-	-	-	117.22
"	" E. W. Trueworthy, for vaccinating,	-	-	-	507.00
"	" L. Huntress, jr.,	-	-	-	251.50
"	" J. J. Colton,	-	-	-	15.00
"	" Sundries,	-	-	-	68.23

\$5,282.82

Respectfully submitted,

J. W. B. SHAW, Chairman.

ANNUAL REPORT
OF THE
CITY PHYSICIAN
AND
SUPERINTENDENT OF BURIALS,
OF THE
CITY OF LOWELL FOR THE YEAR 1880.



LOWELL, MASS.:
Printed by Campbell & Hanscom, Morning Times, 22 Central Street.
1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 25, 1881.

Read and sent to the Common Council.

SAMUEL A. McPHETRES, City Clerk.

IN COMMON COUNCIL, January 25, 1881.

Received and read.

DAVID CHASE, Clerk.

REPORT.

OFFICE OF CITY PHYSICIAN AND SUPERINTENDENT OF BURIALS.
LOWELL, JANUARY, 1881.

To the City Council of the City of Lowell:

Gentlemen:—I have the honor herewith to present my second annual report as City Physician and Superintendent of Burials, of the City of Lowell, for the year ending December 31, 1880.

In doing so it is a pleasure to record the fact that no contagious or epidemic disease has prevailed to any extent during the past year; small-pox, however, made its appearance during the month of May, but was promptly reported to the Board of Health by the attending physician, Dr. C. H. Leland, and immediate action taken by the chairman to prevent its spread. The case was that of a child between one and two years of age, who succumbed to the disease. The child and its mother, who also had the varioloid, were at once removed to the pest-house at the farm and communication with them forbidden, and thus by the vigilance of Mr. Shaw, who caused the isolation and vaccination of that portion of our community most liable to its ravages, our city escaped what might have been a serious epidemic. Again is demonstrated the efficacy of isolation and vaccination as a preventive to the spread of small-pox.

The deaths from the so-called zymotic diseases, diseases which should be treated with preventives, as they are more or less controlled by sanitary regulations, were 361 against 230 the preceding year. This increase principally arises from the addition to our population of a large number of working people who from necessity are more exposed to those influences which are supposed to give rise to this class of diseases, namely, crowded and poorly-ventilated habitations, improper diet and exposure. This fact is specially patent in that dis-

trict provincially known as "Little Canada," from which locality has been reported since July 1st sixty-eight deaths, and an examination of the causes of the deaths shows that a large number were from preventive diseases. The census which was taken about the middle of June gives the population of this district 2,889, which, if correct, shows an annual death rate of a fraction over 47 to the thousand, or about three times the normal death rate.

Were it not for the fearful mortality from this locality, our death rate would be quite satisfactory. The chief causes of death during the year have been: 1st, consumption, 233; 2d, diarrhœal diseases, 190; 3d, pneumonia, 119; 4th, disease of brain, 97; 5th, debility, 85; 6th, disease of heart, 60; 7th, convulsions, 42; 8th, croup, 33; 9th, typhoid fever, 23; 10th, diphtheria, 22.

Total deaths for the year have been 1,312, an increase of 306 over the preceding year, a death-rate of 22.05 in 1000. The normal death-rate, as estimated by good authorities, is 17 in 1000. Our death-rate is large, but not much more than the average in Lowell for the past ten years.

Of the whole number of deaths 634 were under five years of age, almost one-half of the total number. This teaches: 1st, That the principal causes of mortality occur before five years of age; 2d, That the high rate of infant mortality may be greatly diminished by the observance of sanitary and hygienic regulations.

There have been eighteen deaths at the almshouse; six from consumption, three from diseases of the heart, two from convulsions, and one each from cancer, bronchitis, debility, old age, disease of brain, diarrhœa, and infantile. When we consider that there have been 505 inmates at this institution, and but two deaths from all the zymotic diseases we can draw but one conclusion, namely, that its sanitary and hygienic condition has been well regulated, and that its inmates have been well fed and well cared for. The death-rate cannot be fairly estimated from its numbers, as many are brought here *in articulo mortis*.

There were 810 interments in the Catholic Cemetery, 261 in the Edson Cemetery, 94 in the Lowell Cemetery, 27 in other yards of Lowell, and 120 removed from the city.

Respectfully submitted,

EDWIN W. TRUEWORTHY,

City Physician and Superintendent of Burials.

TABLE I.

EXHIBITTING THE NUMBER OF DEATHS DURING THE YEAR 1880, WITH THE CAUSE, AGE, AND SEX.

Sex.		MONTH.												AGE.												
Male.	Female.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Under 1 year.	1 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	90 yrs and over.
Total Deaths from all causes.	695	704	1309	107	93	125	103	90	103	135	146	134	95	89	390	244	30	59	126	103	72	66	91	8	6	11
Apoplexy.....	10	17	27	6	6	4	2	2	1	1	3	1	2	2	1	4	5	5	1	3	3	1	2	1	1	
Accident.....	18	8	26	1	1	1	3	3	4	2	2	2	3	2	1	4	5	5	1	3	1	2	2	1	1	
Anthrax.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Auremia.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Abscess.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Bronchitis.....	9	13	24	3	3	5	1	1	1	2	1	2	4	2	8	8	1	1	2	1	1	3	1	2	1	
Childbirth.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Consumption.....	101	132	233	22	22	21	21	21	26	10	15	16	26	16	14	16	1	27	62	47	26	13	18	8	1	
Cancer.....	3	16	19	1	1	1	2	2	2	3	2	4	2	3	9	22	2	3	1	2	2	5	5	3	1	
Croup.....	19	14	33	4	4	1	4	1	1	2	1	3	5	3	25	15	1	1	1	1	1	1	1	1	1	
Convulsions.....	26	16	42	1	3	9	3	4	6	2	2	3	2	4	3	3	1	1	1	1	1	1	1	1	1	
Cyanosis.....	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Cystitis.....	1	3	4	3	5	2	1	1	1	1	1	1	1	1	2	16	1	1	2	1	1	1	1	1	1	
Diphtheria.....	11	11	22	3	5	2	1	1	1	1	1	1	1	1	4	2	1	1	2	1	1	1	1	1	1	
Debility.....	7	12	19	2	2	1	1	1	2	3	1	2	3	4	1	1	1	1	1	1	1	1	1	1	1	
Disease of Heart.....	25	35	60	4	8	6	4	7	5	4	2	3	7	4	1	1	1	1	1	1	1	1	1	1	1	
Disease of Brain.....	61	36	97	5	9	8	11	6	13	13	9	8	6	6	3	44	31	5	3	3	3	3	12	5	2	
Disease of Kidneys.....	7	8	15	2	2	3	2	1	2	1	2	1	2	3	3	2	1	1	1	2	5	1	2	3	1	
Disease of Liver.....	6	9	15	1	1	2	3	1	1	1	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	
Diarrhoeal Diseases.....	101	89	190	1	5	4	1	1	9	51	63	42	4	5	4	127	46	1	2	1	3	1	4	2	3	
Dropsy.....	4	8	12	4	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1	3	1	1	
Embolism.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Erysipelas.....	3	3	6	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Euphysema.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fever Typhoid.....	9	14	23	3	3	1	2	2	1	2	2	6	6	2	1	1	1	6	7	6	2	1	1	1	1	
Fever Scarlet.....	1	10	11	1	7	1	1	2	1	1	1	1	2	3	14	1	1	1	1	1	1	1	1	1	1	
Fistula.....	1	1	2	1	1	1	1	1	1	3	1	2	1	2	1	4	1	1	2	1	1	3	1	3	1	
Gastritis.....	3	11	14	1	3	1	1	1	2	1	3	1	2	2	1	2	1	1	2	2	1	2	1	1	1	
Gangrene.....	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	
Hemorrhage.....	3	5	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	
Infantile Debility.....	48	38	86	9	5	6	5	6	7	9	7	12	5	7	86	1	1	1	1	1	1	1	1	1	1	
Leucorrhœa.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Malaria.....	18	18	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Measles.....	7	11	18	2	1	3	2	3	3	1	1	1	1	1	4	11	1	1	1	1	1	1	1	1	1	
Malformation Con.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Old Age.....	14	23	40	7	1	6	5	1	3	3	2	3	2	2	1	1	1	1	1	1	1	1	2	13	17	8
Pyæmia.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Paratyphoid.....	8	13	21	1	1	4	2	1	2	2	2	2	2	2	3	1	1	1	1	1	1	1	2	8	6	1
Peritonitis.....	6	14	20	3	2	3	2	1	2	3	1	1	1	1	2	1	1	1	1	8	6	1	1	1	1	
Pneumonia.....	45	74	119	17	10	14	18	12	7	6	7	3	6	6	13	21	26	5	3	10	9	8	10	14	3	
Pertussis.....	10	8	18	2	1	1	1	1	1	1	1	1	1	1	9	8	1	1	1	1	1	1	1	1	1	
Pott's Disease of Spine.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Quinsy.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rheumatism.....	1	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Spleen.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	
Stricture of Intestines.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Scrofula.....	1	8	9	1	1	1	1	1	1	1	1	2	1	1	1	3	3	1	1	1	1	1	1	1	1	
Septicæmia.....	3	3	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	
Snakebite.....	2	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Small-pox.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Tumor.....	1	4	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Tetanus.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Uraemia.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Unknown.....	2	5	7	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	

TABLE II.

DEATHS IN EACH MONTH FOR THE LAST TEN YEARS.

MONTHS.	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	Total each month for ten years.
January.....	89	66	82	88	76	80	120	64	105	107	877
February.....	66	80	82	83	78	57	88	78	69	93	774
March.....	72	89	86	96	82	81	97	104	78	125	910
April.....	78	75	91	104	80	75	84	84	83	103	857
May.....	77	94	82	89	99	67	77	82	73	90	830
June.....	75	68	68	67	76	69	63	78	70	103	727
July.....	119	137	153	99	81	160	87	132	108	135	1211
August.....	119	113	141	139	129	137	112	127	97	146	1260
September.....	135	114	119	143	97	128	81	121	75	134	1147
October.....	88	72	107	96	84	119	86	78	92	97	919
November.....	54	69	65	90	60	91	64	58	74	89	714
December.....	61	71	85	90	78	83	68	82	82	90	790

TABLE III.

NUMBER OF DEATHS FROM SOME OF THE MOST PREVALENT DISEASES IN THE LAST TEN YEARS.

DISEASES.	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	Total ten years
Cholera Infantum.....	35	84	82	135	105	119	63	96	86	127	932
Consumption.....	168	225	207	184	212	188	176	191	193	233	1977
Croup.....	15	20	21	34	39	63	42	28	26	33	321
Disease of Heart.....	26	35	46	47	46	40	40	45	45	60	430
Diphtheria.....	8	7	4	17	16	158	142	62	21	22	457
Infantile Debility.....	36	77	64	48	62	46	58	67	31	86	575
Marasmus.....	8	17	50	32		22	16	21	24	36	226
Pneumonia.....	54	58	80	61	51	47	40	53	80	119	643
Scarlet Fever.....	32	12	57	100	19	5	3	2	12	17	259
Typhoid Fever.....	28	66	56	42	34	20	21	24	22	23	336

TABLE IV.
DEATHS IN LOWELL SINCE ITS INCORPORATION.

1827	50	1845.....	363	1863	695
1828	32	1846.....	690	1864	633
1829	66	1847.....	948	1865	575
1830	103	1848.....	825	1866	749
1831	117	1849	903	1867	640
1832	178	1850.....	492	1868	875
1833	211	1851.....	629	1869	763
1834	221	1852.....	604	1870	952
1835	229	1853.....	734	1871	1033
1836	253	1854.....	834	1872	1048
1837	301	1855.....	766	1873	1161
1838	407	1856.....	790	1874	1184
1839	340	1857.....	818	1875	1020
1840	407	1858	626	1876	1147
1841	434	1859.....	736	1877	1027
1842	473	1860.....	720	1878	1080
1843	364	1861.....	713	1879	1006
1844	362	1862	641	1880	1312

TABLE V.
NATIVITY OF THOSE DECEASED DURING THE YEAR 1880.

Lowell	647
Elsewhere in United States.....	290
Ireland.....	212
Canada.....	104
England.....	34
Scotland.....	15
Other foreign countries.....	6
New Brunswick	2
Unknown.....	2

ANNUAL REPORT
OF THE
BIRTHS, MARRIAGES AND DEATHS
FOR THE
CITY OF LOWELL,
FOR THE YEAR 1880.



LOWELL, MASS.:
Printed by Campbell & Manscom, Morning Times, 22 Central Street.
1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, March 22, 1881.

Read and sent to the Common Council.

SAMUEL A. McPHETRES, City Clerk.

IN COMMON COUNCIL, March 22, 1881.

Received and read.

DAVID CHASE, Clerk.

REPORT.

CITY CLERK'S OFFICE,
Lowell, March 22, 1881. }

To the City Council:

GENTLEMEN: I have the honor to submit the Annual Report of Births, Marriages, and Deaths in the City of Lowell during the year 1880, delay having been occasioned by having to canvass the city in part a second time, for births, the collectors who first performed the work not having been able, in consequence of removals and from other causes, to find a number of those returned by physicians during the year, and not all the facts have yet been obtained, although the numbers are believed to be nearly correct.

BIRTHS.

The number of children born alive during 1880 was 1770, an increase of 358 over the previous year, which was larger than ever before, and giving a birth rate of 29.75 in each 1000 of the population of the city.

There were 922 males, 819 females, and in 29 cases the sex is one of the facts yet needed to complete the record. Four were colored and eleven reported as illegitimate. Twenty-two pairs of twins are recorded, eleven pairs of boys, five pairs of girls, and in six cases one of each sex.

4 REPORT OF BIRTHS,

The Wards report as follows :

Ward One, - - - -	315	Ward Four, - - - -	271
Two, - - - -	223	Five, - - - -	358
Three, - - - -	315	Six, - - - -	288

The Wards gain over 1879 as follows : Ward One, 50 ; Two, 49 ; Three, 24 ; Four, 68 ; Five, 106 ; Six, 61.

By months the following figures are reported :

January, - - - -	123	April, - - - -	115
February, - - - -	154	May, - - - -	125
March, - - - -	151	June, - - - -	133
	<hr/>		<hr/>
	428		373
July, - - - -	154	October, - - - -	132
August, - - - -	175	November, - - - -	171
September, - - - -	155	December, - - - -	180
	<hr/>		<hr/>
	484		483

The months of two births are not reported.

The nativities of the parents of the children born are given as follows :

	Fathers.		Mothers.	
	1879.	1880.	1879.	1880.
Born in United States, - -	518	572	556	627
.. Ireland, - - -	479	530	448	505
.. Canada, - - -	246	398	253	398
.. England, - - -	104	123	86	110
.. Scotland, - - -	20	36	26	25
.. Other Foreign Countries, -	33	46	40	56
Unknown, - - -	12	65	3	49
	<hr/>	<hr/>	<hr/>	<hr/>
	1412	1770	1412	1770

MARRIAGES.

The number of intentions of marriages recorded and issued in 1880 was 774, an increase of 108 over 1879. The number of marriages solemnized in Lowell was 744, or 109 more than in 1879 ; solemnized elsewhere, but returned and recorded here because one or both of the parties resided in Lowell, 47, or 4 more than in 1879—making in all 791 recorded here, or 113 more than in 1879. This shows that 26.76 persons were married in each 1000 of our population.

MARRIAGES AND DEATHS.

5

The number of certificates issued and marriages recorded in each month were as follows :

Certificates. Marriages.		Certificates. Marriages.	
January, - - -	71 76	July, - - -	63 61
February, - - -	49 59	August, - - -	63 63
March, - - -	30 29	September, - - -	80 89
	<hr/>		<hr/>
	150 164		206 213
April, - - -	61 62	October, - - -	82 84
May, - - -	57 57	November, - - -	106 103
June, - - -	47 52	December, - - -	65 56
	<hr/>		<hr/>
	165 171		253 243

The following named resident clergymen officiated in performing the ceremonies :

BAPTIST—57.

Rev. O. E. Mallory, 22 ; M. C. Thwing, 13 ; T. M. Colwell, 12 ; J. C. Emery, 8 ; E. A. Lecompte, 1 ; N. M. Williams, 1.

CATHOLIC—359.

Rev. A. M. Garin, 116 ; Peter Crudden, 73 ; James McGrath, 70 ; Michael O'Brien, 37 ; Wm. O'Brien, 18 ; J. A. Fournier, 11 ; Wm. M. O'Brien, 9 ; John Ryan, 8 ; G. J. Van Laar, 5 ; F. Gignault, 4 ; A. Trudeau, 3 ; L. V. Petit, 2 ; D. O'Riordan, 2 ; James Campbell, 1.

CONGREGATIONALIST—78.

Rev. Smith Baker, 39 ; J. M. Greene, 14 ; C. D. Barrows, 9 ; J. B. Seabury, 9 ; Owen Street, 6 ; E. B. Foster, 1 ; Samuel Bowker, 1.

EPISCOPAL—48.

Rev. Theodore Edson, 33 ; L. C. Manchester, 8 ; A. E. Johnson, 6 ; J. Jewett Cressey, 1.

FREEWILL BAPTIST—48.

Rev. E. W. Porter, 23 ; G. S. Ricker, 19.

REPORT OF BIRTHS,

METHODIST (EPISCOPAL)—62.

Rev. G. L. Collyer, 28 ; C. D. Hills, 9 ; W. W. Foster, Jr., 8 ; G. L. Westgate, 7 ; A. H. Herrick, 5 ; Thos. Haworth, 1 ; N. M. Matthews, (Primitive) 4.

PRESBYTERIAN—12.

Rev. Robert Court, 12.

UNITARIAN—10.

Rev. J. L. Seward, 7 ; H. C. Duganne, 3.

UNIVERSALIST—18.

Rev. R. A. Greene, 7 ; G. W. Bicknell, 6 ; G. T. Flanders, 5.

FRENCH PROTESTANT—8.

Rev. T. G. A. Cote, 8.

NON-RESIDENT CLERGYMEN,—54.

JUSTICES OF THE PEACE—36.

The relative gain or loss by resident clergymen of different denominations, as compared with 1879, are as follows : Increase. Baptist, 5 ; Catholic, 72 ; Episcopal, 7 ; Freewill Baptist, 14 ; Universalist, 3 ; French Protestant, 2. Decrease, Congregationalist, 2 ; Methodist, 1 ; Presbyterian, 1 ; Unitarian, 2.

The nativities of those married were as follows :

	Grooms.		Brides.	
	1879.	1880.	1879.	1880.
Born in United States.	403	450	422	454
“ Ireland,	102	114	98	110
“ Canada,	98	154	95	154
“ England,	34	44	32	28
“ Scotland,	14	8	5	8
“ Other foreign countries,	27	21	26	36
Unknown.				1
	<hr/> 678	<hr/> 790	<hr/> 678	<hr/> 790

Of those married for the first time there were 675 grooms, and 718 brides; for the second time, 106 grooms and 68 brides; for the third time, 10 grooms and 5 brides. One groom of sixteen years was married to a bride of 15, eight grooms were 18, ten were 19, and nineteen were 20 years of age, making thirty-eight grooms under 21 years of age. Of the brides five were 16, and thirteen were 17 years of age, making nineteen under 18 years of age. The oldest couple were aged as follows: The groom 70 and the bride 67, it being the third marriage of each. The youngest couple is noted above.

DEATHS.

The number of deaths in 1880 was 1312, an increase of 306 over 1879, the next largest number having been in 1874, when there were 1184. There were 606 males and 706 females deceased last year, but as the population on the first day of June last numbered 26,855 males and 32,630 females, according to the United States census, the result shows a larger relative mortality among the former, or 22.55 males in each 1000 of their number and 21.63 in each 1000 of the females.

Deaths by months are reported as follows:

January.	107	July.	135
February.	93	August.	146
March.	125	September.	134
	<hr/>		<hr/>
	325		415
April.	103	October.	97
May.	90	November.	89
June.	103	December.	90
	<hr/>		<hr/>
	296		276

The causes of deaths and other interesting facts will be found in the Annual Report of the City Physician and Superintendent of Burials, and need not be repeated here.

BOUNDARIES. POPULATION. NUMBER OF DEATHS. AND DEATH RATES BY ENUMERATION DISTRICTS.

Last year the city was divided into twenty-six enumeration districts for the purpose of taking the United States census. By the kindness of Hon. Francis A. Walker, Superintendent

of the United States census, and Hon. Carroll D. Wright, Supervisor of this State, the compiler is able to give the boundaries and exact population of each district, and is also able from the returns of deaths to give the exact number of deaths, and the death rates in each. The boundaries of the enumeration districts are first given. It should be understood that when a street, canal or river is given as a boundary it is from the center thereof. The table will be found on page 11.

WARD ONE.

District 1.—Ward 1 north of Merrimack street and east of the Suffolk or Western canal except the mill yards and houses of the Lawrence company, and Tremont and Suffolk mills.

District 2.—Ward 1 north of Merrimack street and west of the Western or Suffolk canal; also the mill yards and the houses of the Lawrence company, and Tremont and Suffolk mills.

District 3.—Ward 1 south of Merrimack street, west of Dutton street, north of Market street and east of Hanover street; also that part west of Dummer street, and east of Lewis street, between Market street and Broadway.

District 4.—Ward 1 east of Dummer street, between Market street and Broadway; also all of the Ward south of Broadway, on both sides of the Western or Suffolk canal.

District 5.—Ward 1 between Merrimack, Suffolk, Broadway, Adams and Cabot streets.

WARD TWO.

District 6. —Ward 2 south of Merrimack street; also all east of Bridge street and south of the Merrimack river.

District 7.—Ward 2 north of Merrimack street and west of Bridge street south of the Merrimack river, and that part north of Merrimack river, between River street and the Merrimack river.

District 8.—All of Centralville west of Bridge street, except that portion between River street and the Merrimack river.

District 9.—All of Centralville east of the center of Bridge street.

WARD THREE.

District 10.—Ward 3 between Central and Gorham streets, north

of Elm street; also that part between Summer, Gorham and South streets.

District 11.—Ward 3 between Central and Gorham streets, south of Elm street; also that portion south of the South common between South, Gorham and Thorndike streets.

District 12.—Ward 3 commencing at Crosby street south of Central, Wamesit and Taylor streets, west of the Concord river north of River Meadow Brook and north or east of Crosby street.

District 13.—Ward 3 east of Central and Gorham streets, south or west of Crosby street and north of River Meadow Brook and all east of Gorham street and south of River Meadow Brook to the city line.

District 14.—Ward 3 west of Gorham street, and between Thorndike and Chelmsford streets to the city line.

WARD FOUR.

District 15.—Ward 4 east of South street, and also including the mill yards, tenements and boarding houses of the Hamilton and Appleton companies.

District 16.—Ward 4 west of South street and east of Thorndike street, except the mill yard, and houses of the Appleton company, and also that part of the Ward north of Middlesex street, west of Thorndike street and east of School street.

District 17.—Ward 4 south of Middlesex street, between Thorndike, Chelmsford, Powell, Liberty and School streets.

District 18.—Ward 4 west and south of School, Liberty, Powell and Chelmsford streets including territory annexed in 1874.

WARD FIVE.

District 19.—Ward 5 north of Merrimack street.

District 20.—Ward 5 south of Merrimack street and north of Broadway and east of Fletcher street, including the west sides of Adams and Cabot streets, between Broadway and Merrimack streets and the south or east side of Pawtucket street between Fletcher and Merrimack streets.

District 21.—Ward 5 south of Broadway and east of School street, and west of Adams and Fletcher streets, also all between Varney, Fletcher, Broadway and School streets.

District 22.—Ward 5 north of Varney street, and west of Fletcher street and east of School street from Varney street to Pawtucket bridge, and commencing at Jonathan Johnson's house on the north side of Pawtucket street, also the territory in Ward 5 west of School street, south of Merrimack river, and also the territory north of the Merrimack river and west of Beaver brook, annexed from the town of Dracut in 1874 and 1879.

WARD SIX.

District 23.—Ward 6 west of Fayette street and north of Church and Andover streets, on both sides of the Concord river.

District 24.—Ward 6 east of Fayette street and north of Andover street except that part bounded by High, Chestnut, Nesmith and Andover streets.

District 25.—Ward 6 south of Andover street and east of Concord river, also that part bounded by High, Chestnut, Nesmith and Andover streets.

District 26.—That part of Ward 6 west of the Concord river and south of Church street.

CONCLUDING REMARKS.

Twenty-seven still births were reported at this office, of whom 10 were males, 9 females and the sex of 8 are not given.

The number of those born alive last year exceeds the number of deaths 458, an increase of 52 over 1879, the excess of births over deaths in that year having been 406. This is certainly gratifying, especially when it was feared that the large number of deaths last year would show considerable of a decrease in the relative natural gain in our population. The statistics submitted is cumulative evidence of what our citizens claim, that the growth of Lowell has been more rapid for the past year or two than at any other period in her history.

Copies of the record of Births, Marriages and Deaths are nearly completed and will be forwarded to the Secretary of the Commonwealth as required by law.

The usual table giving the Births, Marriages and Deaths in Lowell since its organization is appended to this report.

Respectfully submitted.

SAMUEL A. McPHETRES.

City Clerk.

TABLE

OF POPULATION, NUMBER OF DEATHS, AND DEATH RATES
BY ENUMERATION DISTRICTS.

Wards.	Districts.	Population, June 1, 1880.	Deaths in 1880.	Deaths in each 1000 of population.
1	1	2529	52	20.56
	2	2470	37	14.97
	3	2086	67	32.11
	4	2190	48	21.91
	5	2441	95	38.87
		<hr/> 11716	<hr/> 299	<hr/> 25.52
2	6	1801	30	16.65
	7	2482	41	16.51
	8	2505	53	21.15
	9	2204	50	22.68
		<hr/> 8992	<hr/> 174	<hr/> 19.35
3	10	2212	64	28.93
	11	1721	25	14.52
	12	2195	49	22.32
	13	1788	27	15.08
	14	2177	31	14.23
		<hr/> 10093	<hr/> 196	<hr/> 19.42
4	15	2302	36	15.63
	16	2189	38	17.35
	17	2146	27	12.58
	18	2226	35	15.71
		<hr/> 8863	<hr/> 136	<hr/> 15.34
5	19	3477	103	29.62
	20	2754	83	30.13
	21	2511	51	20.31
	22	2163	40	18.48
		<hr/> 10905	<hr/> 277	<hr/> 25.40
6	23	2788	62	22.22
	24	1826	24	13.14
	25	1824	41	22.47
	26	2478	39	15.73
		<hr/> 8916	<hr/> 166	<hr/> 18.61
St. John's Hospital			38	
City Farm & Hosp'			20	
Corporation Hosp'l			1	
In Merrimack river			3	
On Railroad			2	
<hr/> Total city,		<hr/> 59485	<hr/> 1312	<hr/> 22.05

TABLE

GIVING THE NUMBER OF BIRTHS, MARRIAGES AND DEATHS IN
LOWELL SINCE ITS INCORPORATION.

YEAR.	POPULATION.	BIRTHS.	MARRIAGES.	DEATHS.
1826-1843	.....	est. 5,010	est. 4,500	4,186
1844	25,163	662	319	362
1845	.....	660	399	363
1846	29,127	772	591	690
1847	.....	719	659	949
1848	.....	796	516	825
1849	.....	672	320	903
1850	33,383	966	674	492
1851	.....	1,018	669	629
1852	.....	1,007	669	604
1853	.....	1,093	742	734
1854	.....	1,092	808	834
1855	37,554	1,039	687	766
1856	.....	1,034	632	790
1857	.....	1,051	585	818
1858	.....	827	467	626
1859	.....	983	496	739
1860	36,827	1,077	497	720
1861	.....	949	459	713
1862	.....	763	368	641
1863	.....	657	302	695
1864	.....	658	335	633
1865	30,990	672	406	555
1866	36,878	813	625	749
1867	.....	826	596	640
1868	.....	860	495	857
1869	.....	858	575	763
1870	40,928	926	515	952
1871	.....	886	647	1,033
1872	.....	1,099	670	1,048
1873	.....	1,365	705	1,161
1874	.....	1,356	580	1,184
1875	49,688	1,296	513	1,020
1876	.....	1,264	514	1,147
1877	.....	1,341	552	1,029
1878	.....	1,332	546	1,088
1879	.....	1,412	635	1,006
1880	59,485	1,770	744	1,312
		41,581	25,008	34,276

ANNUAL REPORT
OF THE
CHIEF ENGINEER
OF THE
FIRE DEPARTMENT
OF THE
CITY OF LOWELL,

FOR THE YEAR ENDING MARCH 31, 1881.



LOWELL, MASS.:
HARRINGTON BRO'S, PRINTERS, SUN OFFICE.
1881.

CITY OF LOWELL.

IN BOARD OF MAYOR AND ALDERMEN, April 12, 1881.

Received and read.

SAMUEL A. McPHETRES, City Clerk.

REPORT.

CHIEF'S OFFICE, ENGINE HOUSE, MIDDLE STREET. }
LOWELL, APRIL 1, 1881. }

To the Honorable Mayor and Board of Aldermen :

GENTLEMEN:—In accordance with the requirements of the ordinance governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of Lowell for the year ending March 31, 1881.

The report will be found to contain statements in detail embracing the amount of expenditures; a register of the department, with number of badge, age, residence and occupation of each member; a record of all fires and alarms which have occurred during the year and the causes thereof, with the names of the owners or occupants; the loss and insurance as near as could be ascertained; with the number and location of fire alarm boxes, hydrants and reservoirs, with an inventory of all property belonging to the department in charge of the several companies and such other information as is thought proper for your consideration.

The amount received from appropriations and other sources was \$54,998.56. The expenses of the Department have been \$54,147.31. The demand for further protection

from fire during the last few years has been the principal cause of the great expense in this department. Most of the said expenses have been of a permanent nature and were no doubt very necessary.

FORCE.

The Department consists of a Chief and four (4) Assistant Engineers ; three (3) Steamer Companies, one of twelve (12) and the other two (2) of eleven (11) men; four Hose Companies of nine (9) men; two (2) Hook and Ladder Companies, one (1) of ten (10) and the other of sixteen (16) men; and one (1) Protective Company of seven (7) men; making a total of one hundred and eight (108) men; the Chief Engineer and twelve (12) Drivers are permanent and devote their whole time to the interest of the city. In addition to the duties pertaining to his Office, the Chief Engineer has charge of all Street Lights; the remaining ninety-five (95) men are subject to call only, during an alarm of fire; one of the Drivers has charge of the Fire Alarm Telegraph; and one of the permanent men belonging to the Protective Company assists on telegraph work, and makes himself generally useful whenever occasion demands.

CASUALTIES.

During the past year several casualties have occurred to the members while in the discharge of their duty, as follows: F. W. Simons, member of Hook and Ladder 1, badly injured by being crushed between the Truck and door coming out of the house.

J. A. Pierce, Driver of Hose 7, two ribs broken, by being run into by a runaway horse.

E. J. O'Connell had a very bad compound fracture of his

leg, jumping from a ladder, and has not yet recovered from his injuries.

The Firemen's Fund Association has done a noble work during the year, by substantially aiding these disabled men. I am gratified, however, to report there has been no loss of life by fire, and no deaths have occurred among the members of the Department the past year.

FIRE ALARM TELEGRAPH.

This important auxiliary to the working apparatus of the Fire Department, now in the tenth year of its existence in this City, continues to work very satisfactorily under the efficient management of Geo. B. Whitney; the present wires have been in use about ten years, and need partial reconstruction; the increase in the size of the City, necessitates the addition of Fire Alarm Boxes, of which there have been four added the past year; with these new additions the list comprises forty seven stations. There have also been added three large gongs in the houses of Hose Companies 4 and 8, and Hook and Ladder 1, and three Engineers' gongs located in the residences of the Assistant Engineers, also one indicator in the Protective house on Warren street.

I would recommend the alteration from our present to the non-interference system now in operation in Providence, R. I., Fall River and other cities; the result is to make every box non-interfering, that is, provided with attachments, preventing any other alarm from interfering with the one first given, until it has been received. This system is so practically non-interfering, that producing mixed alarms by simultaneously operating two different boxes, is almost an impossibility. Another addition, and an increase to the efficiency of the service of procuring quick notice of fires, is

being made by connecting all the houses of the department by telephone, to be owned and maintained by the city.

APPARATUS

Now in service consists of three (3) Steam Fire Engines of equal capacity. Two (2) of them have been repaired the past year: Hope No. 1 has had new water ways, and other repairs and needs painting; Torrent No. 2 has had a new set of copper tubes and a general overhauling. Wame-sit No. 3 needs some slight repairs and also needs painting. Seven (7) Horse Hose Carriages in first class condition, except Hose No. 4, which was built by J. J. Wright & Co. in 1871 to be run by hand, and was made over for a horse hose carriage in 1877. It is not strong enough, and if kept in regular service it will have to be thoroughly repaired, as the two-wheel carriage, now kept in reserve, is not safe to ride on. I would recommend that it be disposed of, and that a new carriage be purchased for No. 4, and the old one kept in reserve. Two (2) Hook and Ladder Trucks and one (1) Protective Wagon fully equipped. In addition to the above we have seven (7) Hose Reels, on runners, drawn by horses; they were built to be run by hand and are neither large nor strong enough and will not carry more than five hundred feet of hose. Some of them have begun to give out, and I would recommend that some new ones be built, so that they will be ready for service next winter. Two (2) traverse runner Sleighs and eight (8) exercise or fuel Wagons, four (4) of which have been added the past year; they are used for exercising the horses, and telegraph, hydrant and sewer work; also horse, harness, wagon and sleigh for the use of the Chief, kept in the house of Hook and Ladder, No. 1. There has been added the past year one Bangor extension

ladder, fifty-five feet long, and placed in the care of Hook and Ladder, No. 2.

PROTECTIVE DEPARTMENT.

The organization of a Protective or Salvage Corps, as an auxiliary to the Department has been agitated by the business men and other citizens of this city for a number of years past. In 1876, a fuel wagon was fitted up and run on a small scale, as an experiment, with such good results that in 1877, the year following, a new wagon was purchased and equipped and run one year, but, by some misunderstanding with the insurance companies, about their paying a part of the expenses, the wagon in 1878 was thrown out of service, and the equipments transferred to the already overloaded hook and ladder truck, where they were not of much account. Last May the Ocean Hose Company, after almost thirty years of honorable service in the Department, and the last hand hose company in regular service, was disbanded, and the Protective Wagon was again put into service in their place, and in my estimation adds great strength to the Department. It is supplied with four (4) hand extinguishers, twenty-eight (28) rubber covers, jumper, brooms, pails, shovels, Johnson pumps, lanterns, scoops, rubber hose, sponges, and all other necessary equipments, with a Salvage Corps, consisting of seven (7) men, two (2) of whom are permanent. They have rendered good service in saving and protecting property, and there is no doubt but what they saved property enough at one fire (the Wyman's Exchange), to pay for their support for two years or more.

HOUSES.

The houses of the Department are in very good repair,

and have been improved from year to year ; they are provided with every requisite for the comfort and convenience of the men, and the ample accommodations of horses and apparatus. The protective house on Warren street has been improved and made much more convenient.

HORSES.

During the year ten horses have been purchased ; three have been added—one had his leg broken and by order of the Chief was killed, one died, three became disabled, and two were exchanged for others better able to do the work—making a total of eighteen now belonging to the Department, all of which are trained to take their places at the first stroke of the Fire Alarm, either by day or night. The peculiar service they are required to perform, and the alternate periods of extraordinary activity and rest to which they are subjected, render them liable to many troubles, nearly one-half of which are from diseases of the feet and legs, which are unavoidable.

HARNESSES.

There are seven pairs of double and nine single harnesses in the Department, all in good condition. There have been purchased the past year, three single harnesses, also two pairs of double swinging harnesses of C. E. Berry, patentee, of Cambridge, which have given perfect satisfaction. I would recommend that the whole Department be supplied with the swinging harness, for it will save from thirty to fifty per cent. in the wear and tear of harnesses, while it will obviate the necessity of keeping the horses continually harnessed, as is the case now.

HOSE.

One thousand feet of new hose has been purchased and placed in service the past year, which makes the entire quantity now in use, twelve thousand four hundred feet of $2\frac{1}{2}$ inch hose, of this five hundred feet is rubber, ten hundred and fifty feet cotton (rubber lined), and the balance leather hose. I would recommend the purchase of one thousand feet more hose the present year, as a portion of the hose now in service is old, and will not stand the pressure required at times.

HYDRANTS.

During the year six new hydrants have been added, and two have been discontinued, one on the corner of Kirk and French streets, and the other on the corner of Central and William streets. Four of those added are post hydrants, and are located on Fremont, Manchester, Chambers and Phillips streets. The two others are flush and located on Kinsman and A streets, making the whole number of hydrants under the charge of the Chief Engineer, six hundred and sixty-nine, for which this Department is charged annually twenty dollars each, which is placed to the credit of the Water Works. One at the corner of Central and Appleton streets has been removed, and a new one to take its place set at the corner of Church and Central streets. The old style hydrants on Middlesex street, from Thorndike to Branch, on Branch from Middlesex to Smith, on Merri-mack from Anne to Central, and on Central from Merri-mack to Market, fourteen in number, have been removed and new ones set in their places. I would recommend that as many more of the old ones as can, will be removed and new ones set in their places the present year, for the

same reasons that have been given you for a number of years past. The past winter has been very severe, but the hydrants have been kept in very good condition. The Drivers have a certain number of hydrants assigned them to look after during the winter season, and to know their condition at all times.

FIRES AND LOSSES.

The whole number of alarms which occurred during the year ending March 31st, 1881, was sixty-nine (69), of which fifty-eight (58) were given from signal boxes, and eleven (11) were still alarms, showing an increase of twenty-five (25) over last year, and the largest number for more than twenty-five years ; we have had but one false alarm, although quite a number were given for slight causes. The amount of loss by fire, as near as can be ascertained, is three hundred thousand, four hundred sixty-three dollars and eighty-five cents (\$300,463.85), upon which there has been an insurance paid of two hundred ninety-eight thousand, nine hundred thirteen dollars and eighty-five cents (\$298,913.85), making a loss, above insurance, of fifteen hundred and fifty dollars, which is quite small as compared with the number of fires, several of which were very threatening conflagrations, and but for the efficiency of the Department, would have proved more serious. Elsewhere will be found a tabular statement to which you are referred for details of each fire. In addition to the above there was one still alarm, by which the loss was reported to be about fifteen hundred dollars, being in one of the mills of the Hamilton Corporation. One of the alarms given was outside the city limits, at the Merrimack Woolen Mills in Dracut ; assistance was asked, and a portion of the Department was sent

out. The loss was twenty-seven thousand, two hundred ninety dollars and thirty-six cents (\$27,290.36) and was covered by an insurance of one hundred and sixty-four thousand dollars (\$164,000.00). Whenever a fire occurs outside and we are called upon to assist, the response is always cheerfully made, although attended with more or less expense to the city. The conflagration on the 6th of October which destroyed the Chase and Faulkner Mills was the largest and most disastrous within the experience of the Lowell Fire Department. The employes of the Chase Mill, after one-half hour or more delay trying to subdue the fire, gave the alarm. By the time the Department arrived, the fire had gained such headway that it was beyond control, fed as it was by all kinds of inflammable substances. The fire originated in the dry room of the Chase Mill, from some cause unknown. The alarm was received at 2.10 p. m., and at 2.20, by order of the Chief, the signal calling the entire Department was rung in. In about thirty minutes the walls of the Chase Mill, caused by an explosion not yet accounted for, were forced out against, and crushing through three stories communicated fire to, the Faulkner Mill. The flames were fanned by a stiff breeze from the northwest, and the oily substances on the machinery and floor aided its rapid destruction. The fall of the Chase Mill was so sudden and unlooked-for that the men had to drop everything and run to save their lives, and I am happy to state that no one was hurt. Five of the six lines of hose were buried under the brick, which burst a number of lengths, causing some delay to the men in laying new lines of hose. After they were laid, it was discovered that the fall had broken the water pipes, which rendered the hydrants almost useless, until the gate was found, to shut off the water, which was about two feet underground. The efforts of the

Department were then directed to saving the surrounding property, and it required every effort of the Firemen to accomplish this. Their exertions were crowned with success, and the Sterling Mill on one side, the Faulkner store house on the other, with the wooden office of the Chase and the tenement block belonging to the Faulkner Mills, a short distance in front, stand testimony to a hard-fought battle. The officers and men deserve especial commendation for their efforts at this fire, which was a very hard one. A part of the Department were dismissed about nine o'clock, and the rest remained with a part of the Board of Engineers until seven o'clock the next morning. The following will show the principal causes of the different alarms, as near as can be ascertained :

Boiling over kettle of oil, 2 ; Beds, 6 ; Brush, 1 ; Chimney fires, 6 ; Clothing in closets, 2 ; Clothing, fire-crackers set, 1 ; Defective chimneys, 5 ; Fence, 1 ; False alarm, 1 ; Fancy goods, ignited by gas jet, 1 ; Hot ashes in barrels, 2 ; Incendiary, supposed, 8 ; Kerosene lamp explosion, 3 ; Lightning, struck by, 1 ; Overheating furnace, 2 ; Overheating fire-place, 1 ; Overheating stove funnel, 1 ; Sparks from chimney, 8 ; Straw, 1 ; Spontaneous combustion, 2 ; Unknown, 7 ; Wood spittoons, 2 ; Wood boxes, 5. Of the buildings in which these fires occurred, sixty-one were composed of wood and eight of brick or stone.

CONCLUSION.

It is gratifying for me to report that the discipline of the members composing the Department, never was better than it has been the past year. There exists a general good feeling among the members of the various companies, and for promptness and efficiency, a favorable compari-

son may be made with any other city. I desire to express my sincere thanks to my associates, the Board of Engineers, for their counsel and efforts in all matters relating to the success of the Department, and their generous co-operation in its management. The foremen and other members of the Department, I wish to thank also for their prompt and faithful responses to duty and strict obedience to orders.

To the Marshal and other members of the Police force, I would return my sincere thanks for the valuable assistance rendered at fires, and on parade, during the past year.

The City Clerk, Auditor, Superintendents of Streets and Water Works, and all other officials with whom I have had pleasant intercourse, will please accept my thanks for favors received.

Finally, it gives me great pleasure to return my warmest thanks to His Honor the Mayor for the many courtesies shown me, and to the Board of Aldermen and gentlemen of the City Council, for their liberality to the financial wants of the Department. I would also return the thanks of the entire Department, which are especially due to the gentlemen constituting the Committee on Fire Department, for the attention given by them to the requirements of this Department, and their cordial support of all measures tending to its welfare.

Respectfully submitted,

EDWARD S. HOSMER,

Chief Engineer.

RECEIPTS AND EXPENDITURES.

RECEIPTS.

Balance undrawn January 1st, 1880.....	\$ 1,395 15
Appropriation.....	45,000 00
Received from other sources.....	1,603 41
Transferred from reserved fund	7,000 00
	<hr/> \$54,998 56

EXPENDITURES.

For use of water.....	\$13,637 00
Services of Board of Engineers.....	1,750 00
Services of Drivers.....	8,280 00
Services of all other members.....	10,423 97
For horses.....	1,500 00
Alterations and repairs on buildings.....	5,764 15
Repairs on Steamers and Hose Carriages, etc..	1,686 07
Harnesses and repairs.....	865 39
Parade.....	280 00
Additions and repairs on Fire Alarm.....	2,050 22
Hay, grain and straw.....	1,935 57
Horse shoeing and repairs on wagons.....	546 03
New hose and repairs.....	1,284 65
Wood and coal.....	1,040 50
Rent, oil and sponges.....	275 08
Doctoring horses and medicine.....	100 85
Furniture, beds and bedding.....	321 07
Gas	373 84
New wagons.....	785 00
Printing.....	104 15
Express and freight.....	32 44
Labor on hydrants, pipe, sewers, etc.....	245 95
Incidental expenses.....	865 38
	<hr/> 54,147 31
Balance.....	<hr/> 851 25

FIRE DEPARTMENT.

MARCH, 1881.

EDWARD S. HOSMER, Chief Engineer.

Residence, 12 Livermore Street. - Office, Engine House, Middle Street.

ASSISTANT ENGINEERS.

*HIRAM N. HALL, Residence, 84 High Street.

JAMES F. NORTON, Residence, 280 Central Street.

JOSIAH W. WHITE, Residence, 26 Third Street.

SAMUEL W. TAYLOR, Residence, 37 Rock Street

COMMITTEE ON FIRE DEPARTMENT FOR 1881.

ALDERMEN C. H. RICHARDSON, T. R. GARITY.

COUNCILMEN S. C. DAVIS, T. J. FLYNN, S. HOSMER.

*Secretary of Board of Engineers.

ADDITIONAL FIRE APPARATUS.

Two-wheeled horse hose carriage, kept in house on Warren street; has 600 feet 2 1-2 inch hose on reel.

Hand hose carriage, kept in house at Pawtucketville, in care of C. E. Luscomb; has 500 feet of 2 1-2 inch hose on reel.

Hand hose carriage, kept in house on Lincoln street, Ayer's City, in care of Calvin Webster; has 500 feet of 2 1-2 inch hose on reel.

Hand hose carriage, kept at City Poor Farm, in care of L. Phelps; has 500 feet 2 1-2 inch hose on reel.

OTHER PROPERTY BELONGING TO THE DEPARTMENT, IN CHARGE OF THE CHIEF ENGINEER.

One truck and one traverse-runner sled, which are used for teaming pipe and other heavy work; one Leverick extension ladder, 65 ft.; one splice 56 ft.; one splice, 40 ft.; one roof, 24 ft., and three other ladders, each 34 ft. long, kept at the City Yard; one two-way chuck, one gooseneck and other tools for working on hydrants; one set dies for department badge; three sets dies for regulation buttons. Each company is furnished with all tools necessary for performing their duties. Implements suitable for keeping their lines in good order are kept at the Telegraph room under charge of the Operator. There is also at the Chief Engineer's office, one respirator, ten chairs, two desks, one silver and two brass trumpets with cases, one table, one looking glass, department badges and buttons, etc.

HOPE STEAM FIRE ENGINE CO., No. 1.

ELEVEN MEMBERS. HOUSE ON GORHAM STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
10	Foreman,	B. F. Crosby,	37	Plasterer,	Moore St.
11	Ass't Foreman,	O. J. Gilbert,	31	Clerk,	19 Elm St.
1	Driver,	J. Cowell,	33	Driver,	Engine House.
13	Engineer,	J. J. Locke,	49	Machinist,	Walnut St.
14	Ass't Engineer,	E. C. Kelley,	30	Machinist,	Chapel St.
12	Hoseman,	E. A. Gerry,	23	Clerk,	8 Favor St.
15	"	C. D. Foley,	26	Carpenter,	Newhall St.
16	"	E. W. Proctor,	26	Carpenter,	197 Central St.
17	"	C. F. Hayden,	40	Stonecutter,	Lincoln St.
18	"	G. W. Lovett,	30	Manufacturer,	Engine House.
19	"	G. M. Clary,	30	Manufacturer,	Engine House.

Apparatus and Property owned by the City, in care of Company.

One steamer built by Union Machine Co., of Fitchburg, Mass., in 1872; has two double-acting steam cylinders, $7\frac{1}{8}$ inches in diameter, 8 inches stroke, 2 double-acting pumps, $4\frac{3}{8}$ inches in diameter, arranged to work separately or together; weight when loaded, 7,575 lbs. 1 two-horse hose carriage, built by the Amoskeag Locomotive Works, carrying 900 feet of hose; 1 pair horses; 1 two-way chuck; 1 branch connection; two hose pipes with stop nozzles; 1800 feet $2\frac{1}{2}$ inch leather hose; 50 feet 1 inch rubber hose; 1 $2\frac{1}{2}$ inch brass cap; 5x2 $\frac{1}{2}$ reducer; 4 small reducers; 12 spanners; 6 lanterns; 3 wrenches; 6 ladder straps; 5 iron bars; 2 axes; 2 wrenches; 1 bucket; 1 hose sleigh; 1 two-horse fuel wagon; 1 pair lead bars; 1 set double harnesses; 1 pair horse blankets; 1 pair hoods; 1 set blocks and tackle; 2 beds and bedding; 1 mirror; 2 bureaus; 14 cane seat chairs; 1 indicator; 1 large gong; 3 shovels; 2 forks; 2 brooms; 1 30 foot rope; 1 pail; 2 ladders; 1 steam boiler; 1 coal hod; 1 iron ash hod; 1 clock; 1 jack screw; 1 work-bench and vice; 4 spittoons; 1 chisel; 2 sets shafts; 3 oil cans; 1 carriage jack; 1 copper gooseneck; 1 basket; 12 silver badges; 1 set regulation buttons; and all tools necessary for cleaning horses and repairing steamer.

TORRENT STEAM FIRE ENGINE CO., No. 2.

ELEVEN MEMBERS. HOUSE ON BRANCH STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
20	Foreman,	A. C. Stearns,	40	Cabinet Maker,	6 Branch St.
21	Ass't Foreman,	C. W. Marriott,	44	Carpenter,	16 Queen St.
2	Driver,	Henry Boynton,	29	Driver,	Engine House.
28	Engineer,	Geo. Maddocks,	35	Machinist,	Engine House.
29	Ass't Engineer,	Chas. S. Hibbert,	35	Machinist,	39 Branch St.
22	Hoseman,	Frank Akers,	23	Machinist,	Engine House.
23	"	M. J. Burns,	26	Carpenter,	Engine House.
24	"	Geo. A. Bennett,	41	Roofer,	39 Marshall St.
25	"	S. Bartlett,	32	Clerk,	22 Queen St.
26	"	Joseph Hill,	31	Plumber,	229 Middlesex St.
27	"	John Abbott,	31	Carpenter,	Appleton St.

Apparatus and Property owned by the City, in care of Company.

Steamer built by Hunneman & Co., in 1868, weight when loaded, 7720 lbs; 1 two-horse hose carriage, built by Leverich & Co., of New York, carrying 700 feet hose; 1250 feet $2\frac{1}{2}$ inch leather hose; 550 feet $2\frac{1}{2}$ inch cotton hose; 1 hose sleigh; 1 fuel wagon; 1 pair horses; 1 set double harnesses; 2 pair blankets; 1 two-way chuck and reducer; 1 branch connection; 2 hose pipes stop nozzles; 6 spanners; 6 ladder straps; 2 hydrant wrenches; 2 axes; 2 bars; 1 copper gooseneck; 1 jack screw; 1 pair lead bars; 6 coal boxes; 1 carriage jack; 11 arm chairs; 12 cane seat chairs; 1 copper boiler; 3 mirrors; 2 bureaus; 3 beds and bedding; 1 gong; 1 indicator; 1 steam boiler; 12 silver badges; 1 clock; 1 work bench and vice; 1 single harness; 2 breastplates; 50 feet 1 inch rubber hose; 12 set regulation buttons; and all tools necessary for cleaning horses and repairing steamers.

WAMESIT STEAM FIRE ENGINE CO., No. 3.

TWELVE MEMBERS. HOUSE ON MIDDLE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
30	Foreman,	J. H. Stackpole,	39	Manufacturer,	27 Stackpole St.
31	Ass't Foreman,	F. Bowdoin,	29	Manufacturer,	19 Stackpole St.
3	Driver,	E. J. Little,	32	Driver H. Car'ge,	Engine House.
9	Driver,	G. B. Whitney,	33	Driver S. F. Eng.,	Engine House.
33	Engineer,	E. L. Brown,	41	Machinist,	20 Merrimack C'n.
34	Ass't Engineer,	J. P. Merchant,	42	Engineer,	Westford St.
32	Hoseman,	J. W. Halstead,	32	Manufacturer,	Branch St.
35	"	D. W. Hilliard,	30	Carpenter,	112 Suffolk St.
36	"	F. Hoyt,	32	Cigar Maker,	Engine House.
37	"	F. Roark,	31	Manufacturer,	82 Middle St.
38	"	F. B. Clemence,	27	Carpenter,	120 Appleton St.
39	"	A. B. Smith,	29	Machinist,	L. M. S. Cor'p.

Apparatus and Property owned by the City, in care of Company.

Steamer built by Hunneman & Co., in 1866, weight when loaded 7650 lbs.; 30 feet suction hose with hydrant couplings; 1 horse hose carriage for shafts or pole; 1 hose sleigh; 1 whiffletree; 3 horses; 1 pair double harnesses; 2 single harness; 6 halter bridles; 4 horse blankets; 3 hoods; 950 feet $2\frac{1}{2}$ inch leather hose; 500 feet $2\frac{1}{2}$ inch rubber hose; 1 two-way chuck and reducer; 2 reducers; 2 caps; 2 hose pipes; 2 stop nozzles; 2 branch connections; 2 hydrant wrenches; 4 spanners; 1 bar; 2 shovels; 3 ladder straps; 1 bucket; 14 silver badges; 6 lanterns; 3 beds and bedding; 3 mirrors; 1 clock; 17 chairs; 1 hose rope; 1 window brush; 1 jack screw; 1 $\frac{1}{2}$ inch brass cap; 1 monkey wrench; 1 indicator; 1 gong; 1 carriage jack; 12 set regulation buttons; and all tools necessary for cleaning horses and repairing steamer.

MAZEPPA HOSE CO., No. 4.

NINE MEMBERS. HOUSE ON FAYETTE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
40	Foreman,	W. H. Halstead,	36	Wool Sorter,	2 High St.
41	Ass't Foreman,	J. J. Quinlan,	28	Machinist,	22 Bartlett St.
4	Driver,	Wm. King,	38	Driver,	Hose House.
42	Hoseman,	E. Meredith,	43	Painter,	54 Fayette St.
43	"	Ed. Meloy,	34	Gas Fitter,	94 Charles St.
44	"	George Wyman,	28	Mason,	24 Bartlett St.
45	"	Chas. Morse,	39	Finisher,	Fairmount St.
46	"	J. D. King,	28	Lather,	Hose House.
47	"	John Ewing,	26	Finisher,	34 Water St.

Apparatus and Property owned by the City, in care of Company.

One horse hose carriage, built by J. J. Wright & Co., of Lowell, carrying 600 feet of $2\frac{1}{2}$ inch leather hose; 1 horse; 2 harnesses; 1 two-way chuck; 2 hydrant wrenches; 3 hose pipes; 20 feet of $\frac{3}{4}$ inch rubber hose; 10 silver badges; 8 spanners; 1 branch connection; 4 reducing couplings; 1 $2\frac{1}{2}$ inch brass cap; 2 bars; 2 axes; 1 monkey wrench; 1 whiffletree; 8 ladder straps; 5 lanterns; 1 carriage jack; 1 clock; 2 mirrors; 1 stove; 1 table; 1 flag; 1 ladder; 1 boiler; 19 chairs; 1 hod; 1 coal sifter; 1 duster; 1 shovel; 2 water-pails; 1 S wrench; 5 spittoons; 1 map; 1 gong; 1 indicator; 1 hose sleigh; 1 bed and bedding; 1 bureau; 1 blanket; 1 fuel wagon; 1350 feet of $2\frac{1}{2}$ inch leather hose; brooms; and all tools for cleaning horse.

WELLMAN HOSE CO., No. 5.

NINE MEMBERS. HOUSE ON FOURTH STREET, CENTRALVILLE.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
50	Foreman,	G. W. Patten,	28	Florist,	18 Hurd St.
51	Ass't Foreman,	A. E. Kidder,	26	Blacksmith,	Hose House.
5	Driver,	T. J. Farrell,	29	Driver,	Hose House.
52	Hoseman,	Caleb Rogers,	47	Manufacturer,	11 Fifth St.
53	"	H. Miller,	27	Piper,	35 Second St.
54	"	A. Merrill,	50	Truckman,	29 Fifth St.
55	"	F. Mansur,	31	Gardener,	172 Bridge St.
56	"	E. Boyle,	35	Truckman,	49 River St.
57	"	J. Smith,	30	Clerk,	49 River St.

Apparatus and Property owned by the City, in care of Company.

One horse hose carriage, built by Amoskeag Co., Manchester, N. H.; 1 horse; 1 harness; 2 bridles; 1 gong; 1 indicator; 750 feet $2\frac{1}{2}$ inch leather hose; 500 feet $2\frac{1}{2}$ inch cotton hose; 50 feet $\frac{3}{4}$ inch rubber hose; 2 hose pipes; 1 spray; 1 reducer; 1 wooden pail; 21 chairs; 2 beds and bedding; 1 reducing coupling; 1 cap; 8 spanners; 2 wrenches; 6 lanterns; 2 bars; 1 ladder; 1 axe; 1 carriage jack; 3 shovels; 3 brooms; 2 forks; 1 clock; 1 duster; 1 sifter; 1 hose sleigh; 3 spittoons; 1 pair steps; 1 two-way chuck; 1 connection; 1 oil can; 1 table; 140 feet $\frac{3}{4}$ inch rope; 1 iron pulley; 1 set pulley blocks; 2 ash hods; 1 wagon; 2 horse blankets; 10 badges; 9 set regulation buttons; and all tools for cleaning horse.

MECHANICS HOSE CO., No. 7.

NINE MEMBERS. HOUSE ON CROSS STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
70	Foreman,	J. H. Tucker,	28	Moulder,	South Street.
71	Ass't Foreman,	E. W. Fletcher,	27	Moulder,	L. M. S. Cor'p.
7	Driver,	J. A. Pierce,	31	Driver,	Hose House.
72	Hoseman,	J. H. Joyce,	38	Moulder,	42 Butterfield St.
73	"	J. E. Firth,	26	Blacksmith,	90 Rock St.
74	"	S. O. Wade,	28	Stone Cutter,	24 Perrin St.
75	"	D. W. Hurley,	29	Stone Cutter,	47 Fletcher St.
77	"	J. A. Fletcher,	24	Moulder,	Broadway.
78	"	J. H. Maxfield,	27	Wood Turner,	Fletcher St.

Apparatus and Property owned by the City, in care of Company.

One horse hose carriage, built by Amoskeag Manufacturing Co., Manchester, N. H.; 1 horse; 1 hose sleigh; 1 harness; 1 halter bridle; 2 blankets; 1 hood; 1400 feet leather hose; 2 pipes; 10 badges; 6 spanners; 1 chuck and reducer; 2 small reducers; 2 bars; 2 brooms; 1 carriage jack; 1 pail; 6 belts; 1 hod; 1 connection, with cap; 4 straps; 1 duster; 1 ladder; 2 brushes; 4 lanterns; 4 spittoons; 1 stove; 3 shovels; 10 chairs; 2 beds and bedding; 1 indicator; 1 gong; 1 wagon; 2 axes; 50 feet $\frac{3}{4}$ inch rubber hose, with pipe; 1 oil can; 1 ash hod; 9 set regulation buttons; and all tools for cleaning horse.

EXCELSIOR HOSE CO., No. 8.

NINE MEMBERS. HOUSE ON CENTRAL STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
60	Foreman,	Ed. Cunningham,	33	Gas Fitter,	29 Church St.
61	Ass't Foreman,	R. O'Connell,	25	Tin Smith,	224 Gorham St.
6	Driver,	Wm. H. Meloy,	35	Driver,	Hose House.
62	Hoseman,	J. E. Coughlin,	30	Plasterer,	65 Charles St.
63	"	P. Curtin,	28	Moulder,	11 Bassett St.
64	"	E. J. O'Connell,	24	Copper Smith,	224 Gorham St.
65	"	N. Prevencher,	24	Painter,	8 Lawrence St.
66	"	Charles Riley,	25	Manufacturer,	Hose House.
67	"	J. F. McCormack,	29	Manufacturer,	28 Pleasant St.

Apparatus and Property owned by the City, in care of Company.

One horse hose carriage, built by Amoskeag Manufacturing Co., Manchester, N. H.; 1 horse; 1 hose sleigh; 1 harness; 1 bridle blanket; 2 forks; 2 brooms; 2 beds and bedding; 1 indicator; 1 gong; 1250 feet leather hose; 4 pipes; 6 lanterns; 1 axe; 1 two-way chuck; 1 reducer; 2 hydrant wrenches 1 brass cap; 1 bar; 5 spanners; 5 ladder straps; 1 connection; 20 chairs; 4 spittoons; 1 stove; 1 mirror; 1 coal hod; 1 carriage jack; 39 feet $\frac{1}{2}$ inch hose; 1 clock; 1 copper boiler; 1 step ladder; 1 ash hod; 1 carriage pole; 1 wagon; 10 silver badges; 2 stop nozzles; 1 dressing case; 9 set regulation buttons; and all tools for cleaning horse.

FRANKLIN HOOK AND LADDER CO., No. 1.

SIXTEEN MEMBERS. HOUSE ON MIDDLE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
101	Foreman,	H. B. Downs,	46	Carpenter,	47 Hamilton C'n.
102	Ass't Foreman,	F. E. Fuller,	32	Carpenter,	42 Hamilton C'n.
100	Driver,	W. L. Peabody,	32	Driver,	H. and L. House.
103	Ladder Man,	A. H. Gilbert,	31	Moulder,	13 Dutton St.
104	"	N. Bishop,	42	Spinner,	120 Lawrence C'n.
105	"	H. C. Daggett,	55	Carpenter,	6 Prescott C'n.
106	"	J. A. Pullen,	52	Machinist,	161 Merrim'k C'n.
107	"	W. N. Smith,	28	Painter,	172 Merrimack St.
108	"	J. P. Pearson,	42	Carpenter,	83 Church St.
109	"	H. S. Gardner,	29	Moulder,	25 Worthen St.
110	"	R McCullough,	31	Carpenter,	56 Middle St.
111	"	J. C. Jones,	38	Carpenter,	29 Fifth St.
112	"	C. M. Brooks,	30	Carpenter,	44 Merrim'k C'n.
113	"	Geo. Farnham,	31	Machinist,	H. and L. House.
114	"	Geo. Sargent,	27	Carpenter,	16 Seventh St.
115	"	F. Simons,	29	Bill Poster,	H. and L. House.

Apparatus and Property owned by the City, in care of Company.

Hook and ladder truck, with tiller, built by Buckley & Merritt, New York; 1 Bangor ladder, 65 feet, 1 forty feet, 1 thirty-six feet, 1 twenty-five feet, 1 twenty feet, 2 thirty feet each; 2 roof ladders, fifteen and twenty-five feet, 1 twelve foot ladder; 4 forks, 4 axes; 4 buckets; 4 lanterns; 4 brooms; 2 scrapers; 2 shovels; 1 bunter; 1 bar; 1 wrench; 2 horses; 2 set double harnesses; 2 blankets; 1 fuel wagon; 1 traverse runner sleigh; 10 hooks; 20 feet $\frac{1}{2}$ inch rubber hose; 200 feet rope; 11 chairs; 2 brooms; 1 mirror; 1 gong; 1 indicator; 17 silver badges; 16 set regulation buttons; and all tools for cleaning horses.

GEORGE HOBSON HOOK AND LADDER CO., No. 2.

10 MEMBERS. HOUSE ON MIDDLE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
121	Foreman,	H. W. Burton,	39	Carpenter,	119 Prince St.
122	Ass't Foreman,	Wm. Roberts,	50	Expressman,	27 Hildreth St.
120	Driver,	H. J. Foster,	30	Driver,	H. and L. House.
123	Ladder Man,	David Pickman,	57	Machinist,	52 Pleasant St.
124	"	C. F. Hemenway,	30	Carpenter,	44 Fremont St.
125	"	G. W. Alcott,	27	Carpenter,	H. and L. House.
126	"	Jas. Winslow,	28	Dyer,	H. and L. House.
127	"	Thomas Allen,	28	Gas Fitter,	27 South St.
128	"	G. M. Dickerman,	43	Machinist,	74 Worthen St.
129	"	C. A. Thompson,	37	Carpenter,	333 Merrimack St.

Apparatus and Property owned by the City, in care of Company.

Hook and ladder truck, built by Juckett & Freeman; 2 ladders, each 33 feet long; 1 Bangor ladder, 55 feet long; 3 roof ladders, 1 28 feet, 1 17 feet, and 1 15 feet long; 5 other ladders, 1 22 feet, 1 18 feet, 1 15 feet, 1 13 feet, and 1 12 feet long; 2 axes; 6 props; 3 hooks; 2 shovels; 200 feet rope; 2 forks; 4 rakes 2 lanterns; 2 pails; 1 bar; 1 sledge; 2 horses; 2 harnesses; 2 blankets; 2 bridles; 1 whip; 1 carriage jack; 18 chairs; 1 mirror; 1 clock; 1 duster; 1 waterpot; 50 feet $\frac{3}{4}$ inch hose; 4 beds and bedding; 1 gong; 1 indicator; 3 brooms; 1 brush; 11 badges; 10 set regulation buttons; and all tools necessary for cleaning horses.

PROTECTIVE CO., No. 1.

7 MEMBERS. HOUSE ON WARREN STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
80	Foreman,	J. L. Flagg,	45	Foreman,	Protective House.
8	Driver,	J. J. Harrington,	30	Driver,	Protective House.
81		A. C. Walton,	42	Manufacturer,	48 Mass. Corp.
82		H. Coulam,	27	Manufacturer,	Protective House.
83		W. P. Wiley,	27	Bleacher,	96 Merrimack St.
84		J. B. Varnum,	27	Moulder,	Walnut St.
85		L. S. Kimball.	30	Roll Coverer,	11 John St.

Apparatus and Property owned by the City, in care of Company.

One wagon complete; 2 horses; 1 pair double harnesses; 3 horse blankets; 28 covers; 1 canvas blanket; 4 extinguishers; 50 feet $\frac{3}{4}$ inch rubber hose; 3 pails; 3 large sponges; 4 brooms; 2 shovels; 1 axe; 4 squill gees; 1 pick; 1 crowbar; 1 lantern; 2 Johnson pumps; 10 lbs. vitriol; 40 lbs. bicarbonate soda; 18 bottles for vitriol; 7 soda cans; 1 gong and indicator combined; 2 stoves; 4 beds and bedding; 1 coal hod; 1 fire shovel; 1 monkey wrench; 1 carriage jack; 1 stable broom; 1 copper boiler; 2 stable pails; 3 spittoons; 1 mop; 1 desk; 1 bureau; 17 chairs; 1 feather duster; 1 chamois skin; 1 oil can; 1 mirror; 2 ash hods; 1 clock; 1 sleigh; 9 badges; 8 set regulation buttons, and all tools for cleaning horses.

SIGNAL BOXES AND COMPANIES RESPONDING TO ALARMS.

Box.	Location.	H. & L.	Steamers.	Hose Companies
3	Broadway and Mt. Vernon Sts.	1.	3.	1. 2. 3. 7.
4	Dutton St., opposite Parker & Cheney's.	1. 2.	3.	1. 2. 3. 7. 8.
5	Fletcher and Cushing Sts.	1. 2.	3.	1. 2. 3. 4. 7.
6	Lewis and Little Sts.	1.		3. 4. 7.
7	Market and Dutton Sts.	1. 2.		3. 4. 5. 7.
8	Westford and School Sts.	2.	3.	1. 2. 7.
9	Common and Salem Sts.	1.		2. 3. 7.
12	Market St.—Police Station.	1. 2.		3. 4. 5. 7. 8.
13	Merrimack and Prescott Sts.	1. 2.		3. 4. 5. 7. 8.
14	Andover and Fayette Sts.—Belvidere.	2.		3. 4. 5. 8.
15	Bleachery St., on Bleachery Stable.	2.	2.	1. 4. 8.
16	Hosford Square—Chapel Hill.	2.		1. 4. 5. 8.
17	Walker and Middlesex Sts.	2.	3.	1. 2. 7.
18	Hale and Lincoln Sts.	2.	2.	1. 3. 8.
19	Gorham and Union Sts.	1.		1. 3. 5. 8.
21	Kirk and Merrimack Sts.	1. 2.		3. 4. 5. 7. 8.
23	River and Coburn Sts.—Centralville.	2.	3.	3. 4. 5.
24	South and Middlesex Sts.	1.		1. 2. 5. 8.
25	Merrimack St.—Tremont House.	1.		3. 4. 5. 7.
26	Fletcher and Pawtucket Sts.	2.	3.	2. 3. 7.
27	Pawtucketville.	2.		2. 4. 7.
28	Cabot and Hall Sts.	1.	3.	3. 4. 5. 7.
29	Tenth and Myrtle Sts.—Centralville.	2.	3.	3. 4. 5.
31	High and East Merrimack Sts.—Belvidere.	2.	3.	3. 4. 5.
32	Tenth and Bridge Sts.—Centralville.	2.	3.	3. 4. 5.
33	Walker St. and Broadway.	2.	3.	2. 7. 8.
34	Lincoln St., on Tannery—Ayer's City.	2.	2.	1. 7. 8.
35	Lawrence and Charles Sts.	1.		1. 4. 5. 8.
36	City Farm, on pole.	2.	1.	2. 7. 8.
37	Whipple and Kinsman Sts.	1.	2. 3.	3. 4. 8.
38	Fair Grounds, on building.	2.	2.	1. 4. 8.
41	Nesmith and Wyman Sts.—Belvidere.	2.	3.	1. 4. 5. 8.
42	Middlesex St.—Old Engine House.	1. 2.	3.	1. 2. 3. 7. 8.
43	Highland St.—Edson School House.	2.	1.	2. 4. 5. 8.
45	Branch St.—Engine House.	2.		1. 2. 7.
46	Central Bridge—Centralville.	1.	3.	3. 4. 5.
47	Andover St., near B. F. Butler's driveway	2.	3.	1. 4. 8.
51	Thorndike and Gorham Streets.	1.	2.	1. 3. 4. 8.
52	Moody and Austin Sts.	1.		3. 4. 5. 7.
53	Central St.—Boston & Maine depot.	1. 2.		3. 4. 5. 8.
61	Lawrence St.—Above Stott's Mills.	2.	1. 2.	3. 4. 8.
62	School and Bowers Sts.	2.	3.	2. 3. 7.
63	Hale and Howard Sts.	2.	1.	2. 4. 8.
64	Third and Myrtle Sts.—Centralville.	2.	3.	3. 4. 5.
71	Middlesex Village.	2.	3.	1. 2. 7.
72	Middlesex St., opposite Huntoon's Stable.	1. 2.	1.	2. 3. 7. 8.
81	Wilder and Pine St.	2.	3.	1. 2. 8.

REPORT OF THE

Date.	Hour.	Box.	Location.	Owner or Oc'pant.	Loss.	Ins. P'd	Kind of Property.	Cause.
Saturday, April 3,	9.30 a.m.	12	Market Street,	Israel Bent,	\$200		Leather,	Overheating a Mixture for Ex-
" " 3,	9.30 a.m.	12	" "	G. N. & E. Nichols,	300	\$300	Commission Store,	tracting Grease from Leather.
Sunday, April 11,	3.00 p.m.	61	" "	Bleacher,			Fence,	Unknown.
Wednesday, April 14,	3.00 p.m.	31	E. Merrimack St.,	Jas. H. Livingston,	Slight.		Roof,	Sparks from Chimney.
Friday, April 23,	5.15 p.m.	21	Church Street,	A. Davis,	925		Wooden Dwelling,	Defective Chimney.
Saturday, May 1,	7.30 a.m.	14	Kirk Street,				False Alarm,	Wire Chafing in Box.
" " 1,	12.35 a.m.	12	Market Street,	Israel Bent,	150	100	Leather,	Overheating a Mixture for ex-
" " 1,	12.35 m.	12	" "	G. N. & E. Nichols,	100		Commission Store,	tracting Grease.
Tuesday, May 4,	4.30 p.m.	36	Stevens Street,	Geo. Flint,	900	500	Barn,	Struck by Lightning.
Monday, May 10,	5.30 p.m.	46	Front Street,	S. Guerin,	Slight.		Roof,	Sparks from Chimney.
Friday, May 14,	6.40 p.m.	6	Drummer Street,				Wooden Dwelling,	Chimney.
Saturday, May 15,	7.40 p.m.	34	Main Street,	Cosgrove Heirs,	Slight.	275	Roof,	Chim. sparks, Hose 3, H. & L. 1 resp
Sunday, May 17,	2.30 p.m.	23	Market Street,	P. McCullough,	275		Barn and Shed,	Incendiary.
Tuesday, June 1,	3.30 p.m.	25	River Street,	Dora Boyle,	25		Bed,	Unknown.
Tuesday, June 1,	11.30 a.m.	7	Market Street,	J. S. Hadley,	Slight.		W'd Sp't'n on Floor	"
Friday, June 11,	3.00 p.m.	46	River Street,	B. F. Butler,	Slight.		Bed,	"
Wednesday, June 16,	11.30 a.m.	9	Fenwick Street,	M. Hands,	Slight.		Wooden Dwelling,	Chimney.
Monday, June 21,	9.30 a.m.	53	Church Street,	Heirs W. Clemence			Store House,	Kerosene Lamp Explosion.
Wednesday, June 23,	2.45 p.m.	23	Howard Street,	J. W. Bennett,	100	2,468	Laundry,	Incendiary.
Sunday, June 27,	1.40 a.m.	42	Pawtucketville,	H. Emery,	2,468		Clothing in Attic,	Overheating Chimney.
Thursday, June 28,	6.50 p.m.	16	Lawrence Street,	L. F. Scripture,	Slight.		" "	Fire Crackers.
Monday, July 5,	7.55 a.m.	25	Cum'skey's Alley				" "	Unknown.
Sunday, July 11,	4.17 p.m.	35	Charles Street,	P. Barnes,	Slight.		Bed,	"
Wednesday, July 14,	4.20 p.m.	19	Graham Street,	C. Gallagher,	Slight.		Wood Box,	Hose 8 responded.
Tuesday, July 27,	7.45 p.m.	Still,	Charles Street,	A. C. Wheelock,	159	159	Wooden Dwelling,	Defective Chimney.
Friday, July 30,	11.15 p.m.	61	Andrews Street,	B. F. Crosby,	539	539	" "	"
" " 30,	11.15 p.m.	61	" "	M. C. Colby,			Roof,	Chim. sparks, Hose 5 responded.
Monday, Aug. 16,	8.00 a.m.	Still,	Courtney's Alley	D. McKee,			Bed,	Unknown.
Tuesday, Aug. 17,	12.50 a.m.	3	Willie Street,	L. E. Sheppard, Agt.	Slight.		Wooden Dwelling,	Defective Chimney.
Thursday, Aug. 19,	2.45 a.m.	25	Merrimack St.,	G. F. Scribner,			Bakery,	Overheating Stove Pipe.
Friday, Sept. 12,	9.25 a.m.	65	Middlesex St.,	A. C. Wheelock,			Saw Mill,	Incendiary.
Friday, Sept. 17,	9.25 p.m.	35	Tyler Street,	Saunders & Co.,	157		Wood Shed,	Hof Ashes in Barrel.
Wednesday, Sept. 22,	4.25 p.m.	35	School Street,	Wm. Walker,			Roof,	Sparks from Chimney.
Thursday, Sept. 23,	1.35 p.m.	72	Middlesex St.,				Bed,	Unknown.
Saturday, Sept. 25,	7.50 a.m.	35	Church Street,	A. C. Wheelock,	40	40	Straw in Back Y'd,	Set Fire by Children.
Monday, Sept. 25,	1.20 p.m.	61	Merrimack St.,	C. B. Snyder,	185,000	185,000	Woolen Mill,	Unknown.
Friday, Oct. 1,	2.10 p.m.	61	Faulkner Street,	Faulkner & Son,	101,875	101,875	" "	Caught from Snyder's.
Wednesday, Oct. 6,	2.10 p.m.	61	" "	" "			" "	" "

FIRES AND ALARMS, CONTINUED.

Date.	Hour.	Box.	Location.	Owner or Oc'pant.	Loss.	Ins. P'd	Kind of Property.	Cause.
Sunday, Oct. 10,	4.45 p.m.	23	River Street,	J. Clark,	\$40	\$40	Wood Box,	Unknown.
Wednesday, Oct. 13,	3.00 p.m.	51	Mid'sex Village,	A. McEaney,	600	600	House and Barn,	Incendiary.
Thursday, Oct. 21,	11.10 p.m.	72	Austin Street,	Merriam Heirs,	Slight.		Wooden Dwelling,	Kerosene Lamp Explosion.
Friday, Oct. 22,	12.10 p.m.	37	Whipple Street,	A. Devine,			"	"Chimney.
Saturday, Oct. 23,	6.37 p.m.	51	Central Street,	P. Moxley,	Slight.		Fancy Goods Store,	"Gas in wind'w caught fr'm gas jet
Sunday, Oct. 25,	5.30 a.m.	3	Rock Street,	W. H. Wiggin,			Paint Shop,	Incendiary.
Monday, Oct. 26,	12.45 p.m.	Still,	Lincoln Street,	Ingalls,	"		Hay Stack,	Incend'y, Vol. Co. Ayer's City resp
Friday, Nov. 5,	9.45 p.m.	3	First Street,	M. G. Parker,	"		Wooden Dwelling,	Kerosene Lamp Exp'd, Hose 5 resp
" Dec. 24,	7.25 p.m.	3	Thomdike St.,	W. E. Livingston,	"		Grist Mill,	Spontaneous Combustion.
Sunday, Dec. 26,	4.25 p.m.	3	Mt. Vernon St.,	J. Barchelder & Co.,	165	65	Dry House,	Unknown.
Thursday, Dec. 30,	8.00 p.m.	Still,	Winter Street,				Wood Shed,	Chimney, Hose 8 responded.
Friday, Dec. 31,	3.03 a.m.	25	Tremont Street,	Tr'm't & Sup'k Corp	Slight.	15		Hot Ashes in Barrel.
Saturday, Jan. 1, '81,	4.00 p.m.	14	High Street,	Nesmith Heirs,	15	15	Brick Church,	Unknown.
Monday, Jan. 3,	1.55 p.m.	21	Kirk Street,	Kirk St. Church,	868	868	Clothes in Closet,	Overheating Furnace.
Friday, Jan. 7,	8.45 a.m.	3	Fletcher Street,	P. Ducey,	31	31	Wood Box,	Unknown.
" Jan. 7,	3.45 p.m.	42	Middlesex St.,	Dr. Holt,	Slight.		Brick Hall,	Overheating Furnace.
Saturday, Jan. 8,	4.58 p.m.	13	Central Street,	J. Tyler Estate,	491	491	Wooden Dwelling,	Unknown, Caught in Attic.
Thursday, Jan. 13,	9.50 a.m.	52	Dodge Street,	Mrs. R. Young,	675	675	Stone Mill,	Spontaneous Combustion.
Sunday, Jan. 16,	9.50 a.m.	46	Dracut,	S. Bachman,			Wooden Dwelling,	Needless, Hose 4 responded.
Thursday, Jan. 27,	8.45 p.m.	Still,	High Street,	J. K. Fellows,	125	125	"	Incendiary.
Friday, Jan. 28,	1.10 a.m.	51	Central Street,	A. C. Wheelock,	2,500	2,500	Brick Building,	Defective Chimney.
Saturday, Jan. 29,	11.45 p.m.	13	Lawrence Street,	T. Sullivan,	912	912	Gymnasium,	Wooden Spittoon.
" Jan. 29,	5.20 a.m.	13	"	Wm. Wymen,	116	116	Tobacco,	Water.
" Jan. 29,	"	13	"	Slade Brothers,	400	400	Fancy Goods,	Water.
" Jan. 29,	"	13	"	Barlett & Bateman,	67	67	Brick Building,	From stove, Protective, Hose 3, 4,
" Jan. 29,	"	13	"	Hildreth Heirs,	75	75	Tobacco,	Water.
" Jan. 29,	9.45 a.m.	Still,	Merrimack St.,	W. Calderwood,	25	25	"	Sparks Set Roof on Fire.
Wednesday, Feb. 2,	2.00 p.m.	42	Howard Street,	B. F. Stevens,	35	35	Machine Shop,	Chimney, Hose 5 responded.
Monday, Feb. 14,	7.45 p.m.	Still,	Reed's Court,	Mrs. Gallagher,	Slight.		Wooden Dwelling,	Overheating Fireplace.
Friday, Feb. 25,	5.35 a.m.	47	Andover Street,	J. S. Ludham,			Curtains,	Needless, Hose 8 responded.
Saturday, Mar. 3,	8.00 p.m.	Still,	Middlesex St.,	A. C. Wheelock,	110.85	110.85	Roof,	Chim. sp'ks, Hose 2, 3, H. & L. 2 resp
Tuesday, Mar. 8,	1.30 p.m.	16	Lawrence Street,	James Hemmessey,			Wooden Dwelling,	Unknown, Caught in Attic.
Saturday, Mar. 19,	9.30 a.m.	4	Dutton Street,	Parker & Cheney,	Slight.		Brick Store House,	Unknown, Varnish Kettle.
Wednesday, Mar. 23,	7.15 a.m.	41	Fairmount Street,	P. Melen,	"		Bed,	Rags Stuffed in Chimney Hole.
Monday, Mar. 28,	11.10 a.m.	25	Suffolk Street,	Mrs. Morla,	"		Roof,	Sparks from Chimney.
Tuesday, Mar. 29,	2.20 p.m.	42	Grand,	G. B. Farnham,	"		Wooden Dwelling,	Smoke from Stove

LOSS, \$390,463.85. INSURANCE, \$298,913.85. LOSS ABOVE INSURANCE, \$1,550.

INSTRUCTIONS TO KEY-HOLDERS.

Alarms are to be given from the box nearest to the location of the fire.

Upon the discovery or positive information of a fire, you will unlock the box, pull down the slide or hook *once* only, and let go. Also, be particular and remain at the box until the arrival of the first company.

Each box contains a small bell, which, if heard before you pull the hook, indicates that the alarm has been previously given from another box. In such cases do not pull the hook until you are sure the alarm has been completed.

Never signal a fire seen at a distance; never touch the hook except to give an alarm in case of fire. Give an alarm for no other cause than an actual fire. Be sure and close the door on leaving the box.

Second alarms for the same fire will be given only by one of the Engineers.

Never let the key go out of your possession unless called for by the Chief Engineer. If you change your residence or place of business where the key is kept, return the key to the same officer.

Keys to boxes are in possession of responsible persons in the vicinity of the signal boxes; also in the hands of the police.

Citizens are requested to inform themselves where keys to the signal boxes are kept.

FIRE ALARM TELEGRAPH.

Location, . . Engine House, Middle Street.

GEO. B. WHITNEY, Operator.

FOUR CIRCUIT AUTOMATIC REPEATER WITH BATTERY.

Miles of Line Wire,	-	-	-	-	-	-	-	-	30
Signal Boxes,	-	-	-	-	-	-	-	-	47
Engineer's Gongs,	-	-	-	-	-	-	-	-	5
Engine House Gongs,	-	-	-	-	-	-	-	-	10
Indicators,	-	-	-	-	-	-	-	-	10
Strikers,	-	-	-	-	-	-	-	-	7

The strikers are located as follows: Police Station, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Church.

The standard time is struck at one o'clock, P. M., each day by Harry Raynes.

One stroke dismisses, two strokes call out the entire Department; two strokes repeated at 1-4 before 8 A. M., and 1-4 past 1 P. M., denote no sessions of schools.

HYDRANTS BY STREETS.

LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.	LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.
A,	1				Colburn,	1			
Adams,		6		4	Common,	4			
Agawam,	4				Conant,	2			
Abbott,	1				Congress,	3			
Aiken,	1				Coolidge,	1			
Ames,	1				Coral,	2			
Amory,	2				Crosby,	3			
Andover,	7		1		Cross,	6			
Andrews,	1				Cushing,				5
Anne,	3				C,			1	
Appleton,	4				Davidson,	2			
Arlington,	1				Dodge,	1			
Ash,	1				Dover,	3			
Barclay,			1		Dummer,	1			
Bartlett,	2				Durant,	2			
Beach,	1				Dutton,	7	1	4	
Bleachery,	8				Eleventh,	1			
Blossom,	1				Elm,	3			
Bowers,	1				East Merrimack,	4			
Branch,	9				East Pine,	2			
Bridge,	9		1	3	Fayette,	4			
Broadway,	4	6			Fairmount,	1		1	
Butterfield,	2				Faulkner,	1			
Cabot,	3	1	1		Fenwick,	2			
Cady,	1				Fifth,	2			
Cambridge,	1				First,	4			
Canal,	2				Fletcher,	7			
Canton,	1				Ford,	2			
Carpet Lane,	1				Fourth,	2			
Carter,	2				Fourth Avenue,			1	
Cedar,	2				Franklin,	1			
Central,	9	8			Fremont,			1	
Chapel,	6				French,				4
Charles,	3				Fulton,			2	
Chelmsford,	1		5		F. & L. R. Ft. Yard,			1	
Chestnut,	2				Gates,	1			
Church,	5				George,	1			
Clark,	1				Gorham,	13		2	1
Clay,	2				Grand,	3		1	
City Farm Yard,			3		Grove,	2			
City Stable Yard,			1		Green,	1			
City Hall Avenue,		1			Hale,	3			
Chambers,			1		Hall,	3			
Coburn,	2				Hampshire,	2			

HYDRANTS BY STREETS.

LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.	LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.
Harrison,	1				Mt. Washington,	3			
High,	5				Myrtle,	3			
Highland,	2				Mill,	1			
Hildreth,	5				Main,	1			
Howard,	6				Nesmith,	8			
Howe,	2				Newhall,	2			
Hurd,	3				Nineteenth,			1	
Jackson,	7				North,	2			
James,	1				Oak,	1			
Jewett,			3		Oliver,	1			
John,	1				Paige,	2			
Keene,	1				Park,	1			
Kidder,	1				Pawtucket,	10			
Kinsman,	2				Pine,	3			
Kirk,	2				Pleasant,	1			
Lane,	2				Porter,	3			
Lawrence,	8				Prescott,	1			
Lee,	1				Prince,	2			
Lewis,	2				Prospect,	1			
Liberty,	5				Phil,			1	
Lincoln,	8				Phillips,			1	
Linden,	3				Queen,	1			
Little,	1				Railroad,	2			
Livingston,	1				River,	6		3	
London,	3				Riverside,			4	
Loring,	2				Robinson,	1			
Lyons,	1				Rock,	3			
Madison,	1				Salem,	4			
Mammoth,			9		School,	9			
Mansur,	1				Second,	1			
Market,	7				Second Avenue,			1	
Marshall,	2				Seventh Avenue,			1	
Mead,	1				Seventh,	1			
Merrimack,	9	3	1	4	Shedd's Avenue,		1		
Methuen,	3				Simpson,	1			
Middle,	5	1			Sixth,	4			
Middlesex,	15	6	9		Smith,	4		1	
Manchester,			1		South Highland,	1			
Merrimack Counting					South,	3			
Room, opp.	1				Stackpole,	4		1	
Moody,	6				Stevens,	1			
Moore,	6				Suffolk,	4			
Mt. Hope,			1		Summer,	6			
Mt. Grove,			2		Tenth,	3			
Mt. Vernon,	2				Third,	6			

HYDRANTS BY STREETS.

LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.	LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.
Thirteenth,	1				Washington,			1	
Thorndike,	5				Water,	3			
Tilden,	2				Watson,	1			
Tremont,	3				Western Avenue,	2	1		
Tyler,	3				Westford,	6		3	
Taylor,	1				West Fourth,	2			
Tucker,			1		West Fifth,	1			
Union,	1				West Sixth,	4			
Varney,	3				West Union,	1			
Varnum Avenue,			6		Whipple,	1			
Vernon,	2				Wilder,	5		1	
Walker,	9				William,	2			
Walnut,	2				Willie,	2			
Wamesit,	2				Winter,	1			
Wamesit Power Co.,	1				Worthen,	6			
Wannalancit,	2				West,			1	
Warren,	1								

Number of Flush Hydrants, 5 inch,	-	-	532
“ “ “ “ 2 1-4 inch,	-	-	35
“ “ Post Hydrants, 2 1-4 inch,	-	-	21
“ “ “ “ new,	-	-	81

 669

RESERVOIRS.

- 1 on Chestnut, corner of Willow Street.
- 1 on Myrtle, at head of Fifth Street.
- 1 on Fourth, near Read Street.
- 1 on Bridge, corner of Seventh Street.
- 1 on Tyler, corner of George Street.
- 1 on Union, corner of Chapel Street.
- 1 on Chapel, corner of Keene Street.
- 1 on Central, at Hosford's Square.
- 1 on Westford, corner of Grand Street.
- 1 on Branch, corner of Queen Street.
- 1 on Middlesex, corner of Wilder Street.
- 1 on Forest Street.
- 1 on Salem, corner of Decatur Street.
- 1 on Cross, between Fletcher and Willie Streets.
- 1 on Varney, near Mt. Vernon Street.
- 2 openings in Canal on Moody Street.

EIGHTH

ANNUAL REPORT

OF THE

LOWELL WATER BOARD

OF THE CITY OF LOWELL,

TO THE CITY COUNCIL,

*(TO WHICH IS APPENDED THE REPORT OF THE WATER BOARD TO
THE CITY COUNCIL, MADE DEC. 14, 1880, ON A
HIGH-SERVICE WATER SUPPLY.)*

ACCOMPANIED BY THE REPORTS OF THE CITY ENGINEER
AND OF THE SUPERINTENDENT OF WATER WORKS,
TO THE WATER BOARD.

JANUARY 10, 1881.



LOWELL, MASS. :
VOX POPULI PRESS: HUSE, GOODWIN & CO.
1881.

CITY OF LOWELL.

IN WATER BOARD, Jan. 11, 1881.

Read and accepted, and ordered to be transmitted to the City Council.

Attest: JAMES M. BATTLES, *Clerk.*

IN COMMON COUNCIL, Jan. 11, 1881.

Read, and sent to the Board of Aldermen.

DAVID CHASE, *Clerk.*

IN BOARD OF ALDERMEN, Jan. 11, 1881.

Received and read.

SAMUEL A. McPHETRES, *City Clerk.*

WATER BOARD, 1881.

President ALBERT A. HAGGETT.

Term expires first Monday in May, 1881.

JAMES W. BENNETT.

Term expires first Monday in May, 1882.

Alderman ROBERT WOOD.

Councilman CHARLES C. HUTCHINSON.

Councilman SAMUEL HOSMER.

Clerk . . . JAMES M. BATTLES.

Regular meetings of the Water Board, Friday evenings, at 7½ o'clock.

Superintendent of Works HORACE G. HOLDEN.

Foreman of Works DANIEL D. FRASER.

Engineer at Pumping Station JAMES P. ROBERTS.

Service Clerk LEONARD T. FARRIS.

Inspectors.

JOHN J. BANCROFT.

ANDREW J. DEVOLL.

THOMAS G. GERRISH, JR.

Inspector of Meters HENRY E. SPRAGUE.

The Water Office is open daily, from 9 A. M. to 12 M., and 2 to 5 P. M., and on Monday evenings, from 7 to 8 o'clock.

CIVIL ORGANIZATION OF LOWELL WATER WORKS,

From their commencement to Jan. 1, 1881.

JOINT SPECIAL COMMITTEES.

1869.

Jonathan P. Folsom, mayor.
Charles A. Stott, alderman.
Cyrus H. Latham, alderman.
William H. Anderson, councilman.
Frederick T. Greenhalge, councilman.
Albert A. Haggett, councilman.
Edwin Lamson, councilman.

1871.

Edward F. Sherman, mayor.
Albert A. Haggett, alderman.
Henry P. Perkins, councilman.
Jeremiah Crowley, councilman.
William Dobbins, councilman.

1870.

Jonathan P. Folsom, mayor.
Charles A. Stott, alderman.
Albert A. Haggett, councilman.
Wm. Kittredge, councilman.
Wm. O. Fiske, councilman.

1872.

Josiah G. Peabody, mayor.
Alexander G. Cunnock, alderman.
Henry P. Perkins, councilman.
Nathaniel C. Sanborn, councilman.
Crawford Burnham, councilman.

WATER COMMISSIONERS.

1870-'71-'72.

Levi Sprague, chairman.
Wm. E. Livingston.
Henry H. Wilder, resigned Sept. 26, 1871.
Samuel K. Hutchinson, elected to fill vacancy.

WATER BOARD.

1873.

Levi Sprague, president, from the citizens.
William F. Salmon, from the citizens.
Jonathan P. Folsom, alderman.
Nathaniel C. Sanborn, councilman.
Nathan W. Frye, councilman.

1877.

Cyrus H. Latham, pres., from the citizens.
Albert A. Haggett, from the citizens.
Horace R. Barker, alderman.
John F. Kimball, councilman.
James W. Bennett, councilman.

1874.

Levi Sprague, president, from the citizens.
William F. Salmon, from the citizens.
Nathaniel C. Sanborn, alderman.
Nathaniel W. Frye, councilman.
G. W. S. Hurd, councilman.

1878.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Horace R. Barker, alderman.
John F. Kimball, councilman.
Charles H. Harvey, councilman.

1875.

Geo. Runels, pres., from the citizens, resigned
Nov. 9, 1875.
Cyrus H. Latham, president *pro tem.*, from
the citizens.
Benjamin Walker, alderman.
Albert A. Haggett, councilman.
Earl A. Thissell, councilman.

1879.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Horace R. Barker, alderman.
Edward B. Peirce, councilman.
Robert G. Bartlett, councilman.

1876.

Cyrus H. Latham, pres., from the citizens.
Earl A. Thissell, from the citizens.
Albert A. Haggett, alderman.
Benj. C. Dean, councilman, resigned May, 1876.
John F. Kimball, councilman, elected to fill
vacancy.
Orford R. Blood, councilman.

1880.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Robert Wood, alderman.
Charles C. Hutchinson, councilman.
Edward B. Peirce, councilman.

*Investigations were made at various times, by order of the City Council,
for the introduction of pure water into the city, viz: By Joint
Special Committees consisting of the following-named citizens:*

1838.

Oliver M. Whipple, alderman.
George Brownell, alderman.
Thomas Hopkinson, councilman.
Benjamin Walker, councilman.
David Dana, councilman.

1839.

Oliver M. Whipple, alderman.
John Clark, alderman.
Thomas Hopkinson, councilman.
Benjamin Walker, councilman.
John Nesmith, councilman.

1848.

Jefferson Bancroft, mayor.
Oliver M. Whipple, alderman.
David Dana, alderman.
John Avery, councilman.
Otis L. Allen, councilman.
Thomas Hopkinson, councilman.
Ignatius Tyler, councilman.

1865.

George W. Norris, alderman.
Edward F. Watson, alderman.
Charles W. Dodge, councilman.
T. L. P. Lamson, councilman.
John Pearson, councilman.

1866.

Josiah G. Peabody, mayor.
Charles W. Dodge, alderman.
Joseph L. Sargent, alderman.
Benjamin Walker, councilman.
Edward C. Rice, councilman.

REPORT OF THE WATER BOARD.

OFFICE LOWELL WATER BOARD,
LOWELL, MASS., Jan. 10, 1881.

To the City Council of the City of Lowell:

GENTLEMEN — The Lowell Water Board, in accordance with the requirements of the Ordinances of the city, take pleasure in presenting this, the Eighth Annual Report of the Board, in being able to congratulate our citizens and the City Council upon the continued success of the Works committed to our care, and upon the financial record of the same, for the municipal year just ended. We desire to extend our thanks to the City Council of the past year for their hearty co-operation in all the legislation of the year, deemed expedient by the Board, and for the necessary appropriations for the success of this important department of our municipality, and would bespeak the continued support of the City Council of 1881 in all which may be considered wise and proper for the continued prosperity of our successful system of Water Works.

The first meeting of the Board for the year 1880 was held on the evening of the 12th of January, the Board

being then composed of the following members: Albert A. Haggett, President; James W. Bennett, from the citizens; Alderman Robert Wood, Councilmen Charles C. Hutchinson, and Edward B. Peirce, elected by the City Council.

ORGANIZATION.

In accordance with the requirements of the City Ordinance, the Board, as before mentioned, James W. Bennett having been re-elected by the City Council for the two years ensuing, met for the annual organization. Albert A. Haggett was re-elected President of the Board, and James M. Battles was, for the sixth consecutive year, re-elected Clerk.

CHANGES IN THE ORDINANCE RELATING TO THE CARE AND MANAGEMENT OF THE WORKS.

At the beginning of the year the City Council adopted the recommendations of the Board of 1879, in amending Chapter 41 of the Ordinances, by which a more just equalization of the water-rates than had existed under the old Ordinance, and some minor changes suggested by the experience of previous years, in regard to the introduction of meters, was secured, and we are pleased to report to the City Council that the past year's experience with the workings of the amended Ordinance has fully justified the propriety of its adoption.

EXTENSIONS OF WATER PIPE.

The extensions of street-mains called for during the year have, as was anticipated, been principally confined

to the out-lying districts of the city, in those streets which during the past year have been largely built upon for the first time.

There have been laid in these extensions 792 feet of 8-inch, 9,333 feet of 6-inch, and 1,192 feet of 4-inch pipe. In addition to these, 813 feet of 4-inch pipe have been laid in Marion, Pond, and Perrin Streets in place of the 1-inch pipe originally laid in those Streets, but which, owing to the increased number of houses, had become inefficient for a needed supply. Quite a large number of smaller pipes have been laid in short avenues, where the requirements will be small for some time ahead, for the accommodation of single takers.

By the generous appropriation of the City Council, the Board was also enabled to carry out the recommendation of the Board of 1879, in taking out 2,037½ feet of the old cement-lined 12-inch pipe from Thorndike to Smith Street, on Middlesex Street, replacing it with cast-iron pipe, connecting the same with the pipe running from Thorndike, through Middlesex and Jackson Streets. The cement-lined pipe was found very defective in many places, and the change was not too early accomplished. A continuous line of cast-iron pipe now fully protects the upper portion of Middlesex Street from the danger of conflagration. We would recommend that during the present year some 1,330 feet of the 12-inch cement-lined pipe, which extends on Central Street, from Jackson to Union Street, be replaced with cast-iron pipe, thus affording a surer protection to property in that vicinity. The cement-lined pipe on Central

Street continues on to Walnut Street, but the necessity for the replacing of this latter part is not so immediately pressing as that portion referred to, *i. e.* from Jackson to Union Street, and can be accomplished at a later period. Nearly every extension of pipe petitioned for during the year, has been laid. The principal lines called for, but not laid, owing to more pressing calls, and lack of funds at our disposal are —

From the Bodwell Estate on Riverside Street, Pawtucketville, to the city line, as petitioned for by Henry Emery and others, and an extension on Chelmsford Street from the City Farm to the premises of H. A. & S. A. Coburn.

These extensions, we think, should be laid during the coming season, and we trust that the City Council will favorably act upon the recommendation of the Board, by granting the appropriation which will at the proper time be called for, to do this work. For a more detailed description of pipe laid during the year, in the extension of the works, your attention is called to the schedule presented with the Annual Report of the Superintendent, submitted with this Report.

HYDRANTS.

We are pleased to report that the Board has been enabled during the year, in addition to the new Hydrants placed upon the new lines of Street-mains, to comply with the urgent request of the Chief Engineer of the Fire Department, and replace four Hydrants on Merri-mack Street, and three on Central Street, of the old

style, with a like number of new and improved pattern of the Boston Machine Co.'s make. This change was earnestly called for by the Chief Engineer and Committee on Fire Department of the year 1879, but the insufficiency of the appropriation of that year prevented this much-needed change. The old Hydrants were subject to constant care during the winter months, to prevent freezing, but with these changes all trouble in this direction is now obviated, and property on Merrimack and Central Streets rendered sure of an instant and full supply of water for fire purposes. We can congratulate our citizens upon the possession of the best means attainable for an abundant supply of water for the extinguishment of fire—there being at the present time 672 Hydrants connected with our Works.

HIGH SERVICE WATER SUPPLY.

During the year two petitions were received from the City Council, one signed by Samuel G. Wyman and others, and one by Daniel S. Richardson and others, asking that immediate steps be taken to supply the higher portions of Belvidere and Centralville above the present level, with water. During the past three years, various petitions numerously signed, having the same object in view, have been presented to former City Councils and referred to previous Water Boards, and in response thereto several Reports thereon, giving various plans and estimated expenses of the introduction of a High Service System of sufficient capacity to meet the wants of the districts needing such a supply, have been

made. On November 26th, 1880, the City Engineer presented to the Board a Report embodying estimates of the cost of four several plans of water supply for these districts, and by vote of the Board the same was sent to the City Council with a recommendation for the favorable consideration by the Council of Plan No. 4, as therein presented. As it was near the close of the year, the City Council voted to refer the subject to the next City Council.

We trust that you will at an early day give this important subject the consideration which it demands, by making provision for the introduction of water to those higher districts of our city. We are confident that the completion of a High Service Supply will at once give an impetus to the growth of our city, in the immediate increase of taxable property in these districts, and in the near future prove to be a good paying investment for the city, at the same time supplying a long-needed want of many of our citizens residing in these localities, who pay large taxes, and are entitled to the benefits granted to their more fortunate fellow-citizens, located within the limits of our present water supply.

We bespeak your favorable consideration of the subject, and assure you of our cordial co-operation in whatever you may deem best for the interests of these long-suffering localities.

CONTRACTS.

February 13th, a contract was made with R. D. Wood & Co., of Philadelphia, the lowest bidders, for 150

tons of cast-iron pipe and special castings, at \$51 per gross ton for pipe, and \$70 per gross ton for specials, delivered on cars in this city; the amount of their bid being \$1,235.50 lower than the amount of the highest of five other bidders. June 25th, in consequence of the large increase in the demand for Street-mains, a contract for 54 tons additional of 6-inch cast-iron pipe was made with the same firm, the lowest bidders, at \$33.25 per gross ton delivered; their bid being \$2.23 per ton lower than the bid of the highest of four other bidders.

July 26th, bids were received and opened for 600 tons of coal, to be delivered and stored within the Coal House at the Pumping Station, and the contract was awarded to Whithed & Co. for that amount of Honeybrook Lehigh Coal, at \$6.21 per ton of 2,240 lbs., screened from the pocket. Subsequently Whithed & Co. offered to substitute another kind of hard anthracite coal, at the lower price of \$5.96 per gross ton, and the Board, after giving this coal a test at the Pumping Station, in which much better results than with the Honeybrook Lehigh coal, were shown as to its steam-creating power, decided to have the contract filled with the latter coal, and the Engineer reports the most favorable results from its use.

FINANCIAL STATEMENT.

The total gross amount of bills sent to the City Treasurer, for collection for this department for the year ending Dec. 31, 1880, is as follows:

For water-rates	\$88,556 93	
Metered water	30,251 77	
	<hr/>	
Total for the use of water		\$118,808 70
For service pipe and laying	\$1,719 27	
Meters sold	2,764 62	
Sundry accounts	2,619 90	
	<hr/>	
Total for pipe, meters, etc.		7,103 79
		<hr/>
Total charges for the year		\$125,912 49

The following statement exhibits the receipts and expenditures for the year, the net cost of the Water Works, including the interest on the Water Loan, and all expenses in excess of receipts for water rates; also the total net cost and expenses of the Works by taxation.

Net cost of the Water Works to Jan. 1, 1880, as per last Annual Report	\$2,156,032 61	
Expended during the year, for water-pipes, and for laying the same, and all other items of construction :		
Materials for mains —		
Cast-iron pipe, 450,295 lbs., and special castings, 43,841 lbs.	\$10,570 78	
Wrought-iron pipe and fittings	2,386 45	
Lead pipe and lead	669 05	
Brass connections	1,103 76	
Lead connections, hardware, etc.	110 21	
Powder, fuse, wood, and gaskets	186 01	
	<hr/>	
	\$15,026 26	
	<hr/>	
<i>Amounts carried forward,</i>	\$15,026 26	\$2,156,032 61

<i>Amounts brought forward,</i>	\$15,026 26		\$2,156,032 61
Labor for laying mains — pay- roll	2,767 52		
Teaming — pay-roll	488 27		
Hydrants for mains	798 20		
Hydrant boxes	42 88		
	<hr/>	\$19,123 13	
Gates for mains	\$628 75		
Gate boxes, etc.	105 11		
	<hr/>	733 86	
		<hr/>	\$19,856 99
New services —			
Labor on trenches, etc. — pay- roll	\$1,377 75		
Piping — pay-roll	583 75		
	<hr/>	1,961 50	
		<hr/>	
Total construction, etc.		\$21,818 49	

MAINTENANCE.

Expended for repairs, current expenses,
pumping, etc., viz:

Repairs —

Materials for repairs of

services, etc. \$348 65

Concrete for services, etc. 19 20

Repairs of tools, etc. 175 80

Hardware, etc. 119 15

Manhole at river-crossing 24 06

Lumber 253 32

\$940 18

Labor — pay-roll —

Repairs of services, etc. \$1,550 97

Hydrants 28 12

At Edson Cemetery 92 76

Labor Fire Department in pack-
ing hydrants 112 00

Street Department repair-
ing paving 59 62

<i>Amounts carried forward,</i>	\$1,843 47	\$940 18	\$2,156,032 61
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<i>Amounts brought forward,</i>	\$1,843 47	\$ 940 18	\$2,156,032 61
Repairing dwelling	3 00		
	<hr/>	1,846 47	
Total repairs		<hr/>	\$2,786 65
Current expenses —		<hr/>	
Labor —			
Salaries	\$3,116 68		
City Engineer	343 00		
Clerk hire — pay-roll	842 49		
Inspection — pay-roll	1,808 25		
Foreman — pay-roll	858 00		
	<hr/>	\$6,968 42	
Materials —			
Printing, stationery, etc.	\$670 60		
Registry of Deeds	24 85		
Expressage, etc.	19 54		
Telephone	115 28		
Horse keeping, etc.	362 23		
Repairs of wagon, etc.	89 32		
Flushing sewers	104 00		
Sidewalk West 6th Street	118 39		
Right of way, R. G. Bartlett	5 00		
Damages	11 09		
	<hr/>	\$1,520 30	
Total current expenses		<hr/>	\$8,488 72
Rebate of water rates		<hr/>	9 92
Pumping account —			
Materials.			
Coal	\$3,519 07		
Wood	105 00		
Oil and tallow	146 44		
Felting	12 47		
Waste and packing,	97 29		
Asphaltum, etc.	9 04		
Gauge glasses, etc.	5 25		
Grates, dampers, etc.	15 05		
Hardware	10 64		
	<hr/>		
<i>Amts. car. forward,</i>	\$3,920 25		\$2,156,032 61

<i>Amts. brot. forward</i> , \$3,920 25	\$2,156,032 61
Pipe, fittings, etc. 35 55	
Other supplies 6 52	
Repairs of governor, 23 66	
Gas 16 41	
Labor — pay-roll 2,568 00	

Total pumping account . \$6,570 39

Engine-house expenses —	
Cement, paint, roof,	
etc. \$19 49	
Lumber for dwell-	
ing, etc. 84 25	

Total engine-house expenses . 103 74

Reservoir —	
Materials.	
Lumber, lead, etc.,	
for dwelling \$161 96	
Dressing, etc., for	
lawn 78 30	

\$240 26

Labor — pay-roll 472 50

Total reservoir expenses . 712 76

Meter expenses —	
Materials, waste, oil,	
etc. \$ 97 61	
Labor — pay-roll 1,373 84	

Total meter expense account, 1,471 45

Meters bought, etc. —	
New meters \$2,925 33	
Freights paid 26 15	
Second-hand meters 20 00	
Repairs of meters 97 99	
	<u>3,069 47</u>

Amount carried forward \$2,156,032 61

Amount brought forward \$2,156,032 61

RECAPITULATION.

Total construction account	\$21,818 49
Repairs	\$2,786 65
Current expenses	8,488 72
Rebate of water-rates	9 92
Pumping account	6,570 39
Engine-house expenses	103 74
Reservoir expenses	712 76
Meter expenses	1,471 45
<hr/>	
Total maintenance account	20,143 63
Meters bought, etc.	3,069 47
<hr/>	
Amount expended for the year, exclusive of interest	\$ 45,031 59
Interest paid during the year	109,360 00
<hr/>	
Total expenditures for the year	154,391 59
<hr/>	
	\$2,310,424 20

CREDITS.

Amounts received by City Treasurer during the year,
for water rates, service pipe, and sundries, as fol-
lows:

For account of 1876	\$ 7 29
" " " 1877	12 60
" " " 1878	7 59
" " " 1879	9,858 04
" " " 1880	113,802 97
" Fees	52 00
<hr/>	

Total receipts for the year 123,740 49

Net cost of Works, including interest on Water Loan, to Jan. 1, 1881	\$2,186,683 71
Present debt of the city, by bonds and notes, on ac- count of the construction of the Water Works	1,800,000 00
<hr/>	
Total amount paid from City Treasury, to Jan. 1, 1881, by taxation, on account of Water Works, in excess of receipts from loans and water rates,	\$386,683 71
Value of Water Works Sinking Fund, Jan. 1, 1881	265,939 63
<hr/>	
	\$652,623 34
<hr/>	

Net cost of Works, including interest on Water Loan, to Jan. 1, 1881	\$2,186,683 71
Whole amount paid by taxation, and by appropriation for the Sinking Fund, and the value of the accumu- lation of said fund, Jan. 1, 1881	652,623 34
	<hr/>
Debt of the city on account of Water Works, in ex- cess of Water Works Sinking Fund, Jan. 1, 1881, \$1,534,060 37	
	<hr/> <hr/>

The following table will show the gross cost of the Water Works, yearly, from the commencement of the same, to Jan. 1, 1881 :

Expended in 1870	\$ 95,057 00
“ “ 1871	624,151 66
“ “ 1872	560,708 40
“ “ 1873	349,717 87
“ “ 1874	233,370 63
“ “ 1875	275,660 78
“ “ 1876	221,502 24
“ “ 1877	163,814 28
“ “ 1878	158,510 15
“ “ 1879	150,047 82
“ “ 1880	154,391 59
	<hr/>
Gross cost of Works, to Jan. 1, 1881 . . .	\$2,986,932 42
Receipts from various sources, to Jan. 1, 1881,	800,248 71
	<hr/>
Net cost of Works, to Jan. 1, 1881 . . .	\$2,186,683 71
	<hr/> <hr/>

The following table will show the Expenditures and Receipts of the Works from 1873 to 1881, exclusive of the interest on the Water Debt:

	EXPENDITURES.	RECEIPTS.	Expenditures in excess of receipts.	Receipts in excess of expenditures.
1873	\$188,376 59	\$57,739 48	\$130,637 11	. . . .
1874	128,105 63	80,625 65	47,479 98	. . . .
1875	170,095 78	94,908 14	75,187 64	. . . .
1876	115,012 24	98,815 54	16,196 70	. . . .
1877	53,988 72	100,826 63	. . . .	\$46,837 91
1878	49,900 15	104,142 87	. . . .	54,242 72
1879	42,157 82	110,185 34	. . . .	68,027 52
1880	45,031 59	123,740 49	. . . .	78,708 90

As will be seen by the above, during the past four years the excess of Receipts over the Expenditures has been steadily increasing, and we can confidently hope in the near future to see our Works self-sustaining.

STATISTICS.

The total amount of water pumped into the reservoir for the year was 823,600,870 U. S. gallons against 739,030,390 U. S. gallons in the year 1879; and the daily average pumped was 2,401,169 gallons against 2,024,768 gallons in 1879; an increase for the year of 84,570,480 gallons, and of 376,401 gallons in the daily average. The quantity of coal consumed during the year for all purposes was $760\frac{1560}{1000}$ tons, against $671\frac{375}{1000}$ tons consumed in 1879.

There have been $541\frac{22}{100}$ gallons raised 166 feet high, for each pound of coal consumed during the year.

The total number of Water-takers is 12,198 against

11,427 in 1879, a gain for the year of 771. There are now laid $62\frac{97}{100}$ miles of Street-mains,—the increase during the year having been $2\frac{31}{100}$ miles, consisting of 792 feet of 8-inch, 9401 feet of 6-inch, 2005 feet of 4-inch pipe. This amount is in addition to the $2037\frac{1}{2}$ feet of 12-inch pipe re-laid on Middlesex and Branch Streets in place of the cement-lined pipe before mentioned.

The total net charges for Water rates for the year, after deducting all abatements, and the charges for service pipes, have been \$117,257.10, against \$106,202.78 for the year 1879, or an increase for the year of \$11,054.32.

We now, for the first time since the establishment of the Works, are enabled to meet the entire interest (\$108,850) of our Water Debt, and have an excess of \$8,407.10, from the total net charges for Water rates of the year. That such a successful result has been reached at so early a date since the establishment of the Water Works, is a fact worthy of congratulation, and speaks with no uncertain sound of the faithfulness of those in the past, to whom the City Council has confided the care and management of this important branch of our municipal work. That it may continue in the future, as in the past, to receive the fostering care of succeeding City Councils, is our earnest hope. The following table will show the charges for water, by months, from the commencement of the Works to Dec. 31, 1880, with all abatements, and total net charges :

CHARGES FOR WATER BY MONTHS, FROM COMMENCEMENT TO DEC. 31, 1880.

MONTHS.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.
January . . . . .	.	\$ 363 94	\$ 418 96	\$ 150 45	\$ 126 51	\$ 169 13	\$ 282 44	\$ 233 73
February . . . . .	.	35 33	235 43	238 25	86 84	144 38	238 19	349 08
March	\$ 6,124 94	50,200 10	65,417 68	82,249 51	80,177 52	82,225 43	80,603 69	80,567 44
April	785 89	1,739 56	935 20	265 34	584 11	1,970 12	9,242 84	6,478 39
May	3,988 16	3,274 09	2,147 96	874 47	1,819 65	1,121 43	2,751 35	1,476 15
June	5,818 78	2,865 86	2,987 43	4,460 91	2,389 52	3,903 69	6,126 40	868 08
July	4,833 52	1,889 03	1,926 31	582 68	3,147 78	1,261 24	1,213 13	11,457 84
August	2,728 30	498 50	449 86	771 87	799 88	677 01	563 35	459 17
September	2,827 07	3,245 06	865 90	495 97	3,943 90	4,998 07	6,584 86	8,108 23
October	9,729 05	872 10	2,947 93	4,893 44	543 79	663 80	454 29	338 51
November	761 21	634 03	573 35	1,445 65	518 72	1,220 27	1,405 89	620 56
December	1,571 72	3,689 79	3,955 59	3,246 39	4,040 71	4,522 75	5,794 77	7,851 52
Totals	\$39,168 64	\$69,307 39	\$82,861 60	\$99,674 93	\$98,178 93	\$102,877 32	\$115,261 20	\$118,808 70
Less abatements to date . . . . .	.	1,872 83	640 06	8,185 88	2,502 65	4,334 13	9,566 03	1,551 60
Net amounts	\$39,168 64	\$67,434 56	\$82,221 54	\$91,489 05	\$95,676 28	\$98,543 19	\$105,695 17	\$117,257 10

All portions of the works are in excellent condition, as will be seen by reference to the Annual Report of the Superintendent of the Works, accompanying this Report. During the present year we would recommend that an additional steam-boiler be placed in the boiler-house at the Pumping Station, as a relief in case of the failure of either of the three boilers, which are now tested to their fullest capacity when we are obliged to run the Worthington Pumping Engine. The Board has authorized the Superintendent to purchase a lathe and engine to be set up at the Pumping Station, to enable the Engineer to do repairs, thus avoiding the necessity of leaving the Station for many small jobs, which could as well be done by him, but for the lack of a lathe upon which to do the work.

July 26th, the Board voted to supply the Drinking Fountain for iced water, which was erected by the Young Men's Christian Association, on Merrimack Street, near Barristers' Hall, free of charge; for which the Association voted their thanks.

May 1st, Mr. E. W. Sargent, who had been in charge of the Reservoir since May 17, 1878, resigned his position, and the Board, upon the recommendation of the Superintendent, appointed Mr. Wm. J. Churchill to the vacant position, and he has proved to be a faithful and reliable man for the place.

The past year has been one of quiet and successful work, and the results are very gratifying. In closing this Report, we desire to record our commendation of the faithfulness of all connected with the Works, espe-

cially thanking the Superintendent for his careful and hearty co-operation with the Board in all measures deemed necessary for the success of the Works. To the faithful and efficient Clerk of the Board, now entering upon his sixth consecutive year; to the Inspectors, upon whom devolves much of the work necessary for a satisfactory recapitulation of the year's work; to the Engineer and his assistants, at the Pumping Station, who have long and faithfully labored in that department where care and fidelity are so necessary, we desire to extend our thanks for their strict attention to the arduous, and oftentimes unappreciated, duties of their several positions, trusting that our city may long have the benefit of their faithful services in the positions which they now so creditably fill. Appended herewith will be found the Reports of the City Engineer and Superintendent of the Works, each of which will be found to contain much that is interesting and worthy of a careful perusal. We also append the balance-sheet of the City Treasurer, showing the charges and receipts for water-rates, service-pipes, and sundries, for the year ending Dec. 31, 1880.

Respectfully submitted,

A. A. HAGGETT,
J. W. BENNETT,
ROBT. WOOD,
CHAS. C. HUTCHINSON,
EDWARD B. PEIRCE,

Lowell Water Board.

ACCOUNTS OF THE TREASURER.

DR. JOHN H. McALVIN, *City Treasurer and Collector*

For water rates, service-pipe, and sundries, charged in 1877 account, and previously reported	\$103,971 64
Treasurer's account in excess	46 83

\$104,018 47

For water rates, service-pipe, and sundries, charged in 1878 account, and previously reported	\$109,024 12
Treasurer's account in excess	148 77

\$109,172 89

For water rates, service-pipe, and sundries, charged in 1879 account, and previously reported	\$121,940 77
January account, 1880	492 99
February account, 1880	1,412 39

\$123,846 15

Treasurer's account in excess	33 53
---	-------

\$123,879 68

of Taxes of the City of Lowell.

Cr.

By cash received for water rates, service-pipe, and sundries, on 1877 account, previously reported	\$101,215 81
Collections in 1880	12 60
Abatements to Dec. 31, 1880	2,787 06
Due and unpaid Dec. 31, 1880	3 00
	<hr/>
	\$104,018 47
	<hr/>

By cash received for water rates, service-pipe, and sundries, on 1878 account, previously reported	\$104,791 45
Collections in 1880	7 59
Abatements to Dec. 31, 1880	4,362 85
Due and unpaid Dec. 31, 1880	11 00
	<hr/>
	\$109,172 89
	<hr/>

By cash received for water rates, service-pipe, and sundries, on 1879 account, previously reported	\$104,357 45
Collections in 1880, less \$103.70, entered in 1880 account,	9,754 34
Abatements to Dec. 31, 1880	9,741 39
Due and unpaid Dec. 31, 1880	26 50
	<hr/>
	\$123,879 68
	<hr/>

DR. JOHN H. McALVIN, *City Treasurer and Collector*

For water rates, service-pipe, and sundries, charged in 1880 account.

March account, metered	.	.	.	.	.	.	.	\$ 6,152 87
March "	.	.	.	.	.	.	.	81,209 29
April "	.	.	.	.	.	.	.	644 53
May "	.	.	.	.	.	.	.	1,798 55
June "	.	.	.	.	.	.	.	1,150 39
June " metered	.	.	.	.	.	.	.	10,013 91
July "	.	.	.	.	.	.	.	2,800 67
August "	.	.	.	.	.	.	.	1,122 90
September account	.	.	.	.	.	.	.	1,671 71
September " metered	.	.	.	.	.	.	.	7,071 42
October "	.	.	.	.	.	.	.	1,012 54
November "	.	.	.	.	.	.	.	1,092 92
December "	.	.	.	.	.	.	.	1,251 84
December " metered	.	.	.	.	.	.	.	7,013 57

\$124,007 11

of Taxes of the City of Lowell.

CR.

By cash received for water rates, service-pipe, and sundries, on 1880
account.

March	\$ 86 43
April	3,959 35
May	64,065 14
June	17,553 44
July	8,244 69
August	7,259 56
September	1,660 84
October	5,016 65
November	4,449 23
December	1,507 64
Receipts in 1879, should be 1880	103 70

\$113,906 67

Abatements to Dec. 31, 1880	1,802 28
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Amounts due Dec. 31, 1880.

March account	74 00
June "	15 33
July "	7 56
August "	62 06
September account	67 02
September " metered	22 04
October "	93 34
November "	252 34
December "	614 30
December " metered	7,013 57
Treasurer's " in deficit	76 60

\$124,007 11



REPORT
OF THE
LOWELL WATER BOARD,
TO THE
CITY COUNCIL,
ON A
HIGH SERVICE WATER SUPPLY,

December 14, 1880.

REPORT ON HIGH SERVICE WATER SUPPLY.

OFFICE LOWELL WATER BOARD,
LOWELL, MASS., Dec. 14, 1880.

To the City Council:

The Lowell Water Board, to whom were referred the petitions of S. G. Wyman and others, and Daniel S. Richardson and others, for a High Service Water Supply, have given the subject the serious consideration it demands, and beg leave to present herewith the Report of the City Engineer to the Board, in which four separate plans are presented for the establishment of such a supply. This subject has several times been brought to the attention of the City Council by large and influential petitions from our citizens in favor of the construction of a High Service Supply, and our predecessors, as well as a Special Committee of the City Council, have in former years presented for the consideration of the City Council estimates for the same, but to the present time no decided steps towards the introduction of the system have been taken.

We are of the unanimous opinion that the time has arrived when the wishes of the petitioners should be favorably considered, and that the subject should receive your favorable consideration, by a recommendation to your successors in the City Council, that immediate action be taken for the introduction of water to those portions of the city needing such a supply.

There are at present, in the districts where such a supply is needed, ninety-nine (99) houses which would be supplied by such a service, fifty-six (56) of which at present are partially supplied by the present Works, and forty-three (43) which are at present

unable to receive a supply, in consequence of the height of their location above the present reservoir.

The establishment of a High Service System would greatly relieve the present Works, in permitting the houses now located upon the upper heights, and at present supplied by the present system, to draw their supply from the High Service, thus permitting the present reservoir to be drawn down to a lower level, without diminishing the pressure and consequently lessening the amount of pumping now necessary to keep the water in the present reservoir to a height of between nineteen (19) and twenty (20) feet, for a sufficient supply.

Of the plans presented by the City Engineer, we desire to recommend for your favorable consideration, Plan No. 4, which although somewhat more expensive in its first cost, will be found in the end to be of sufficient capacity for all the future needs of the two High Districts; while if either of the other plans is adopted, in the near future, when the districts are more thickly settled, as they undoubtedly will be upon the introduction of water, additions will be needed thereto. The cost of operating under Plan No. 4, will also be much more economical in the matter of supplies and superintendence, the pumping power all being located in the present Pumping Station, than in the other plans suggested, which would require two Pumping Stations, and consequently an increase in the matter of care and maintenance.

We have refrained from referring to a "Stand-pipe" System of Supply, as such a system would necessitate a constant running of the engine for supplying the wants of these districts, and therefore an increased expense in pumping expenses, as well as giving a much less reliable supply than can be had from a reservoir, where a large quantity of water can be stored ready for immediate use in case of conflagration. With the Reservoir Plan, the districts would be fully supplied for all their future needs, but with the "Stand-pipe" System, when the territory to be supplied is more densely populated, further additions, probably a reservoir, would be rendered necessary.

The following Table will present at a glance the comparative cost of the four plans presented by the Engineer, and as will be seen, the extra cost of the No. 4 Plan is caused by the long line of distributing-main, needed to supply the Belvidere District, which, from the location of the district, is unavoidable.

TABLE OF ESTIMATED COST.

	PLAN 1.	PLAN 2.	PLAN 3.	PLAN 4.	Difference between Plans 1 and 3, and Plan 4.	
Engine and house .	\$ 6,100	\$ 7,530	\$ 7,530	\$ 6,100	—\$7,530	
Pumping main . .	6,560	4,300	4,250	12,400		+\$1,590
Land and reservoir	11,740	11,740	15,130	17,500	— 9,370	
Distribution . . .	3,320	2,480	3,975	35,700		+\$28,405
Total	\$27,720	\$26,050	\$30,885	\$71,700	—\$16,900	+\$29,995
						—16,900
Making the net excess of Plan 4 over Plans 1 and 3						+\$13,095

The location of the reservoir in the Centralville District we deem to be of the utmost importance, on account of its higher altitude, as thereby all the Belvidere District can be supplied with a good pressure, which could not be done by a reservoir located on the highest land in Belvidere.

As the money for the construction of this system could easily be raised at the present time at a low rate of interest, we would recommend your favorable consideration of the subject, in order that all of our fellow-citizens, *high* and low, may be the recipients of God's greatest blessing to humanity — pure water and plenty of it.

Respectfully submitted in behalf of the Lowell Water Board,

A. A. HAGGETT, *President*.

OFFICE OF CITY ENGINEER,
LOWELL, MASS., Nov. 17, 1880.

To the Lowell Water Board:

GENTLEMEN — The undersigned submits the following report on the High Service System of Water Supply.

By the first plan it is proposed to locate the pumping-engine (capacity 500,000 gallons in twenty-four hours) in the coal-house of the Pumping Station on West Sixth Street. The pumping-main (eight inches in diameter) to be laid in Bridge and Tenth Streets to the proposed reservoir, which would be located on the City's land

near Mount Pleasant Street. High-water mark in this reservoir would be two hundred forty-eight (248) feet above City Datum, or about sixty-seven (67) feet above high water in the reservoir on Beacon Street. This reservoir would supply all parts of Centralville, with the exception of a small area in its immediate vicinity. An eight-inch distributing pipe would be laid in Beacon Street from Tenth Street to Bennett Street, where it would connect with the pipe now laid in Bennett, Vernon, and Durant Streets. A six-inch pipe would be laid in Beacon Street, from Bennett Street southerly about three hundred and fifty (350) feet.

Plan No. 2 is the same as the first with these exceptions: The pumping-engine would be located on the north side of the reservoir on Beacon Street, and take the supply from the reservoir. The force and distributing-mains would be considerably shortened. A wooden engine-house, boiler, feed-pump, etc., would be required, although the cost of these would be partly offset by the expense of the changes which would be necessary in the present engine-house by the adoption of the first plan.

It is supposed that the reservoir-keeper would be able to run the engine at this place, and also in Belvidere, until the consumption shall be very much larger than it would be at present.

For comparison of these two plans, we will assume the consumption to be one hundred and fifty thousand (150,000) gallons per day, and the duty of the new engine at fifty million foot-pounds for one hundred pounds of coal. Then by the first plan one hundred nineteen (119) tons of coal (including the coal used in starting the fires) will be required per year, which at \$6.70 per ton, will amount to about \$798.00.

By taking the supply from the present reservoir, as contemplated in the second plan, we find the number of tons of coal used by the Morris Engine, with a duty of one hundred million foot-pounds, in pumping the same quantity of water to the present reservoir, to be thirty-eight, which at \$6.70 per ton, amounts to about \$255. To pump the same quantity of water from the present reservoir to the proposed High Service Reservoir, with the same engine as in Plan No. 1, would require forty-three tons of coal, including that used for starting fires, which at \$7.00 per ton, would amount to \$301, making the total cost of coal for the second plan \$556 per year.

This is \$242 per year less than by the first plan. This sum equals the interest on \$4,840 at five per cent. per annum. The difference in

the estimated cost of the two plans is \$1,670, which invested at five per cent. would amount to \$83.50 per annum; and this sum added to the difference in cost of pumping, would make a yearly saving of \$325.50 in favor of the second plan.

Plan No. 3, for the Belvidere District, proposes to locate the engine (capacity, 500,000 gallons in twenty-four hours) on Mansur Street, east of Fairmount Street, the supply to be taken from the street-main and forced through an eight-inch pipe, laid in Mansur Street and Belmont Avenue, to a reservoir located on land of Thomas Nesmith, Esq., just north of the Locks and Canals Reservoir. This reservoir would have a capacity of about 500,000 gallons, and high-water surface (221 feet above City Datum) would be twenty-seven feet below the water in the Reservoir near Mount Pleasant Street, spoken of in Plans 1 and 2.

This reservoir would be capable of supplying water to the first story of any house built on the highest land in the district, and most of them could obtain a supply in the second story, although there would not be much pressure.

It is impossible to build this reservoir at a higher elevation without incurring too great expense. High-water mark would be twenty-six feet above the underpinning of George Naylor's house on Fairmount Street. An eight-inch distributing-pipe would connect the force-main in Mansur Street with the present eight-inch pipe in Fairmount Street, which would be extended easterly in Fairmount Street about eleven hundred (1,100) feet, then be reduced to a six-inch pipe and extended about six hundred (600) feet, to the residence of Col. Albert Pinder. A six-inch pipe would be laid in Fairview Street.

Plan No. 4 is substantially the same as reported in the Fifth Annual Report of the Lowell Water Board, Jan. 1, 1878, although some changes have been made which have reduced the cost.

The engine would be of the same capacity, and located the same as in Plan No. 1, but the force-main would be twelve inches in diameter; this increase in size being necessary on account of the great length required to reach Belvidere, and also as it would form a part of the distributing-main. The reservoir would be located the same as in Plan No. 1, but would have double the capacity (1,000,000 gallons).

The distributing-main would be twelve inches in diameter, and connect with the force-main at Bridge Street, near Ninth Street, and be laid in Bridge, Merrimack, East Merrimack, High, Oak, and

Nesmith Streets, to Mansur Street; and there connect with the eight-inch pipe now laid in Mansur Street. It is proposed to cross the rivers and canals on iron trusses, independent of the bridges.

The distribution in Centralville would be the same as in Plan No. 1; but in Belvidere it would be somewhat less than in Plan No. 3.

In Belvidere, when the consumption reaches 100,000 gallons per day, by Plan No. 3, it will require about fifty-one and one-half tons of coal per year, which, at \$6.70 per ton, would amount to \$344; and by Plan No. 1, we have found the cost of coal to be \$798, making the yearly cost of coal for Centralville and Belvidere, by Plans 1 and 3, \$1,142.

Now, by Plan No. 4, when the consumption reaches 250,000 gallons per day, the amount of coal consumed yearly would be one hundred and eighty-four tons, which, at \$6.70 per ton, would amount to \$1,233.

The difference in the estimated cost of Plans 1 and 3, and Plan 4, is \$13,095; and at five per cent. per annum, the interest on this sum would amount to about \$655 yearly; this sum, added to the difference in the cost of coal, would make the yearly cost, by Plan No. 4, \$747 more than by Plans Nos. 1 and 3, provided, as assumed at first, that no additional help will be required.

The advantage gained in adopting Plan No. 4, would be greater pressure for the Belvidere District.

It will be seen that the capacity of the engine in Plan No. 4 is the same as in the other plans, it being amply large for domestic consumption and fire purposes.

It is not probable that large fires would occur in both districts at the same time.

It has often been asked, "Why not arrange the reserve Worthington Engine (5,000,000 gallons' capacity in twenty-four hours) so as to give a high service water supply?" In 1877, I proposed the same question to the builder, Mr. H. R. Worthington, and received the following reply:

NEW YORK, Dec. 31, 1877.

GEORGE E. EVANS, Esq., City Engineer, Lowell:

DEAR SIR,—I should not be willing to advise such a change in the five-million engine as you propose. Not that I am willing to say it is not strong enough, but as it was not built for such a service, it would be depending upon the superfluous strength of the parts.

I am more inclined to advise against it, because it will cost but little to put in the extra engine you propose. . . .

Very truly yours,

HENRY R. WORTHINGTON.

The following are only approximate estimates, but are considered sufficiently large to complete the work :

PLAN No. 1—CENTRALVILLE DISTRICT.

Engine to be located at engine-house, West Sixth Street.

One duplex, compound, condensing engine (capacity 500,000 gallons in twenty-four hours) and foundations (without boiler and feed-pump)	\$ 4,000 00
Change in engine-house	2,100 00
Pumping-main and right-of-way	6,560 00
Land and reservoir (capacity about 500,000 gallons)	11,740 00
Distributing-pipes	3,320 00
Total	<u>\$27,720 00</u>

PLAN No. 2—CENTRALVILLE DISTRICT.

Engine to be located at Reservoir, Beacon Street. One duplex, compound, condensing engine, boiler, etc., and foundations (capacity 500,000 gallons in twenty-four hours)

Engine to be located at Reservoir, Beacon Street. One duplex, compound, condensing engine, boiler, etc., and foundations (capacity 500,000 gallons in twenty-four hours)	\$ 4,530 00
Wooden engine-buildings	3,000 00
Pumping-main	4,300 00
Land and reservoir (capacity about 500,000 gallons)	11,740 00
Distributing-pipes	2,480 00
Total	<u>\$26,050 00</u>

PLAN No. 3—BELVIDERE DISTRICT.

One duplex, compound, condensing engine (capacity 500,000 gallons in twenty-four hours), boiler, etc., and foundations

One duplex, compound, condensing engine (capacity 500,000 gallons in twenty-four hours), boiler, etc., and foundations	\$ 4,530 00
Wooden engine-buildings and land	3,000 00
Pumping-main	4,250 00
Land and reservoir (capacity 500,000 gallons)	15,130 00
Distributing-pipes	3,975 00
Total	<u>\$30,885 00</u>

PLAN No. 4—CENTRALVILLE AND BELVIDERE DISTRICTS.

Engine to be located at engine-house, West Sixth Street.

One duplex, compound, condensing engine (capacity
500,000 gallons in twenty-four hours) and foundations

(without boiler and feed-pump)	. . . . .	\$ 4,000 00
Change in engine-house	. . . . .	2,100 00
Pumping-main (12-inch) and right-of-way	. . . . .	12,400 00
Land and reservoir (capacity about 1,000,000 gallons)	. . . . .	17,500 00
Distributing-main (12-inch)	. . . . .	28,900 00
Centralville distribution	3,320 00
Belvidere distribution	3,480 00

Total	\$71,700 00
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Respectfully submitted,

GEORGE E. EVANS,

City Engineer.

EIGHTH ANNUAL REPORT
OF THE
CITY ENGINEER, TO THE WATER BOARD.

January 1, 1881.

REPORT OF THE ENGINEER.

OFFICE OF CITY ENGINEER,

LOWELL, Jan. 1, 1881.

To the Lowell Water Board:

GENTLEMEN — The undersigned respectfully submits the following report of the work done by the pumping-engines for the year 1880. The records were kept by Mr. James P. Roberts, the Engineer at the Pumping Station; and also the average of the records taken at the Distributing Reservoir. In the calculation of the duty of the engines, nothing has been allowed for friction in the pumps.

The head is obtained by the reading on the water-gauge, added to the distance from the gauge to the water in the pump-well. The total duty is calculated on all the coal used about the building, no deduction being made for heating the engine-room nor for heating the large tar-kettle used for coating water-meters. All repairs on the boilers are charged to the Morris Engine, as they could not well be separated. The Morris Engine has pumped 551 gallons, and the Worthington 425 gallons, of water into the reservoir, per pound of coal used for all purposes.

TABLE SHOWING WORK DONE WITH MORRIS ENGINE (Beam and Fly-Wheel) AND BOILERS, FOR EACH MONTH DURING THE YEAR 1880.

MONTHS.	No. of days' Pumping.	Average No. of hours' pumping per day.	No. of hours' pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head, including friction, in feet.	Quantity pumped per month, in U. S. gallons.	Average quantity pumped per day, in U. S. gallons.	Duty in lbs., 1 foot high, with 100 lbs. coal, used only, no deduction for ashes or clinkers.	Duty on total coal consumed, no deduction for ashes or clinkers.
January	28	10-41	299-00	198,687	11.08	165.54	61,592,970	2,199,749	99,559,838	78,425,765
February	21	11-46	247-10	167,465	11.29	165.71	51,914,150	2,472,102	98,144,900	78,397,867
March	27	11-00	297-15	197,436	11.07	165.50	61,205,160	2,266,858	97,256,764	77,306,667
April	24	10-36	254-25	165,073	10.81	165.39	51,172,630	2,132,193	98,801,399	76,843,132
May	26	11-56	310-25	208,278	11.18	165.25	64,566,180	2,483,315	96,968,534	78,343,728
June	29	11-42	339-15	228,384	11.22	165.87	70,799,040	2,441,346	96,423,455	78,358,526
July	22	12-22	272-00	186,444	11.42	165.12	57,797,640	2,627,165	93,461,702	76,476,828
August	30	12-22	371-05	251,948	11.32	165.90	78,103,880	2,603,463	90,464,318	75,215,759
September	28	11-43	328-10	219,018	11.12	166.13	67,895,580	2,424,842	89,955,315	74,076,680
October	29	11-29	332-50	223,680	11.20	166.00	69,340,800	2,391,062	88,089,171	72,399,323
November	27	11-56	322-15	218,001	11.28	165.50	67,580,310	2,502,974	88,832,527	73,320,200
December	28	11-54	333-10	224,296	11.22	165.42	69,531,760	2,483,277	92,705,220	76,198,090
Totals and averages	319	11-37	3,707-00	2,488,710	11.19	165.61	771,500,100	2,418,496	93,734,952	76,108,012

TABLE SHOWING WORK DONE WITH WORTHINGTON DUPLEX ENGINE AND BOILERS, FOR EACH MONTH DURING THE YEAR 1880.

MONTHS.	No. of days' Pumping.	Average No. of hours' pumping per day.	No. of hours' pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head, including friction, in feet.	Quantity pumped per month, in U. S. gallons.	Average quantity pumped per day, in U. S. gallons.	Duty in lbs., 1 foot high, with 100 lbs. coal, used in pumping only, no deduction for ashes or clinkers.	Duty on total coal consumed, no deduction for ashes or clinkers.
January . . . . .	. .	. . .	. . . . .	. . . . .	. . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
February	4	11-25	45-40	28,179	10.28	165.78	8,735,490	2,183,872	72,705,083	60,954,775
March . . . . .	. .	. . .	. . . . .	. . . . .	. . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
April	2	10-50	21-40	13,427	10.33	165.68	4,162,370	2,081,185	73,683,400	61,141,546
May	2	10-53	21-45	13,634	10.45	165.28	4,226,540	2,113,270	70,567,521	59,104,778
June	2	9-45	19-30	8,648	7.39	179.46	2,680,880	1,340,440	69,130,719	58,964,373
July	8	10-50	86-45	57,364	11.02	164.88	17,782,840	2,222,855	76,432,841	61,134,802
August . . . . .	. .	. . .	. . . . .	. . . . .	. . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
September	2	11-43	23-25	13,651	9.72	162.68	4,231,810	2,115,905	60,077,300	48,828,790
October . . . . .	. .	. . .	. . . . .	. . . . .	. . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
November . . . . .	. .	. . .	. . . . .	. . . . .	. . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
December	4	12-36	50-25	33,164	10.96	163.33	10,280,840	2,570,210	65,394,444	56,201,606
Totals and averages	24	11-08	269-10	168,067	10.41	166.73	52,100,770	2,170,866	71,417,077	59,112,831

TABLE showing Amount of Coal, etc., used for Morris Engine at Pumping-Station, for each Month during the Year 1880.

MONTHS.	COAL CONSUMED.				Wood for starting fires, in cords.	Oil used, in gallons.
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total coal consumed.		
January	16 800	85,350	6,200	108,350	. . . . .	. . . . .
February	12,600	73,050	5,800	91,450	. . . . .	. . . . .
March	16,200	86,800	6,200	109,200	. . . . .	. . . . .
April	14,400	71,390	6,000	91,790	. . . . .	. . . . .
May	15,600	91,700	6,200	113,500	. . . . .	. . . . .
June	17 400	101,500	6,000	124,900	. . . . .	. . . . .
July	13,200	85,100	5,700	104,000	. . . . .	. . . . .
August	18,000	119,370	6,200	143,570	. . . . .	. . . . .
September	16,800	104,500	5,600	126,900	. . . . .	. . . . .
October	17,400	108,900	6,200	132,500	. . . . .	. . . . .
November	16,200	104,930	6,000	127,130	. . . . .	. . . . .
December	16,200	103,400	6,200	125,800	. . . . .	. . . . .
Totals	190,800	1,135,990	72,300	1,399,090	. . . . .	. . . . .

TABLE showing Amount of Coal, etc., used for the Worthington Duplex Engine, at Pumping-Station, for each Month during the Year 1880.

MONTHS.	COAL CONSUMED.				Wood for starting fires, in cords.
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total coal consumed.	
January . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
February	2,400	16,600	800	19,800	$\frac{1}{2}$
March . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
April	1,200	7,800	400	9,400	$\frac{1}{4}$
May	1,200	8,250	400	9,850	$\frac{1}{4}$
June	600	5,800	400	6,800	$\frac{1}{4}$
July	6,600	31,970	1,400	39,970	$1\frac{3}{8}$
August . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
September	1,800	9,550	400	11,750	$\frac{3}{8}$
October . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
November . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
December	2,700	21,400	800	24,900	$\frac{3}{8}$
Totals	16,500	101,370	4,600	122,470	$3\frac{3}{8}$

PUMPING-STATION, MORRIS ENGINE.

RUNNING EXPENSES FOR THE YEAR 1880.

Pay of engineer and firemen	\$2,376 00
599 $\frac{886}{2000}$ tons of Lehigh coal, @ \$4.273	2,561 42
6 $\frac{950}{2000}$ tons of Honey Brook coal, @ \$5.607	36 31
91 $\frac{264}{2000}$ tons of Wilkesbarre coal, @ \$5.286	50 91
83 $\frac{1990}{2000}$ tons of Jeddo coal, @ \$5.321	446 94
48 $\frac{7}{8}$ cords wood	175 81
Gas for lighting works	14 76
45 gallons valvoline oil, @ \$1.25	56 25
10 gallons cylinder oil, @ \$0.80	8 00
49 gallons spindle oil, @ \$0.50	24 50
658 lbs. tallow, @ \$0.07 $\frac{3}{4}$	51 00
59 lbs. soapstone packing, @ \$0.30	17 70
23 $\frac{1}{2}$ lbs. hemp-packing, @ \$0.25	5 88
57 $\frac{1}{2}$ lbs. metallic packing	51 81
85 $\frac{1}{2}$ lbs. cotton waste	7 86
Repairs on engine	92 63
*Repairs on boilers	46 39
*Sundries	23 66
Total	<u>\$6,047 83</u>

Cost of raising water into reservoir per million gallons, \$7 84

Cost of raising water, per million gallons, one foot high, .04 $\frac{73}{100}$

WORTHINGTON ENGINE.

RUNNING EXPENSES FOR THE YEAR 1880.

Pay of engineer and firemen	\$192 00
481 $\frac{570}{2000}$ tons of Lehigh coal, @ \$4.273	208 46
12 $\frac{900}{2000}$ tons of Jeddo coal, @ \$5.321	66 25
3 $\frac{3}{8}$ cords of wood	13 31
Gas for lighting works	1 65
5 gallons cylinder oil, @ \$1.25	6 25
25 lbs. cotton waste	3 00
Sundries	3 00
Total	<u>\$493 92</u>

Cost of raising water into reservoir, per million gallons, \$9 48

Cost of raising water, per million gallons, one foot high, .05 $\frac{69}{100}$

The following table shows the average depth of water, the number of gallons, the temperature of the water in the reservoir, and also the temperature of the air, for each month during the year. The temperature of the water was taken at 6 A. M. and 6 P. M., and of the air at 6 A. M., 1 P. M., and 6 P. M.

MONTHS, 1880.	Depth in feet.	Quantity in U. S. gallons.	TEMPERATURE.	
			Of water.	Of air.
January	19.82	30,276,600	35.4°	30.0°
February	19.31	29,419,000	34.0°	28.4°
March	19.75	30,154,400	37.0°	31.2°
April	19.70	30,070,100	44.2°	46.5°
May	19.59	29,884,900	59.0°	64.9°
June	19.47	29,677,700	68.6°	73.2°
July	19.40	29,565,600	73.0°	73.5°
August	19.14	29,130,100	71.1°	71.2°
September	19.59	29,884,900	66.3°	64.5°
October	19.43	29,621,700	57.2°	49.6°
November	19.47	29,677,700	44.4°	34.2°
December	19.70	30,070,100	36.0°	22.3°

The following table shows the average monthly and daily consumption of water for the year 1880.

MONTHS, 1880.	Gallons per month.	Gallons per day.
January	61,310,670	1,977,760
February	62,195,280	2,144,660
March	59,941,810	1,933,610
April	55,193,920	1,839,800
May	68,933,660	2,223,670
June	74,603,460	2,486,780
July	75,580,480	2,438,080
August	77,262,070	2,492,330
September	72,268,040	2,408,940
October	70,321,429	2,268,430
November	66,880,564	2,229,350
December	79,812,600	2,574,600

The average daily consumption of water for the year was about 2,252,197 gallons.

Respectfully submitted,

GEORGE E. EVANS,

City Engineer.

EIGHTH ANNUAL REPORT
OF THE
SUPERINTENDENT OF WATER WORKS, TO THE BOARD.

January 1, 1881.

REPORT OF THE SUPERINTENDENT.

SUPERINTENDENT'S OFFICE,
CITY HALL, LOWELL, Jan. 1, 1881.

To the Lowell Water Board:

GENTLEMEN — In compliance with the city ordinance I present the eighth annual report of the Superintendent of Lowell Water Works.

The Works at present are all in good condition. There has been no freezing of services or mains during the year, but little trouble with leakages, and very few complaints in regard to the purity of the water.

THE FILTER-GALLERY AND CONDUIT.

On the 18th of December the water in the filter-gallery was drawn down to a depth of 18 inches, and a general inspection was made of the gallery. The mason-work was found to be in good condition, and the water was perfectly clear.

No repairs have been needed this year on the filter-gallery, conduit, or force-main.

PUMPING-STATION.

At the Pumping-station the Morris Engine, as usual, has done the larger portion of the pumping, and but few slight repairs have been needed for the engines or boilers.

RESERVOIR.

The house and barn at the reservoir-grounds have been newly shingled, and an addition of 12 feet in length has been made to the barn. The well has been cleaned out, and a brick curbing put around it. Also, about eight cords of manure have been drawn from the City Stable, and spread on the grounds. All the repairs on the buildings have been done by the man in charge of the reservoir, and no expense has been connected with it except for the materials used.

EXTENSIONS.

No important extension has been laid this year, most of the extensions being on cross streets, or new streets that have been recently laid out. The longest extensions were on Manchester Street (940 feet), and on A Street, from Powell Street, 910 feet of pipe.

The largest job of changing pipe was on Middlesex and Branch Streets, from Thorndike Street to Smith Street, 2,037½ feet of 12-inch cast-iron pipe, was laid in place of 12-inch cement-lined pipe taken out. This cement-lined pipe had been in use about thirteen years, and on uncovering it many places were found badly corroded. There was one leak of considerable size, and several other places where the water oozed out slowly. Doubtless before another season the pipe would have burst in several places.

HYDRANTS.

There have been six Hydrants set on extensions, and four post Hydrants and four flush Hydrants have been set on Middlesex Street, in place of eight old flush Hydrants taken out.

Four flush Hydrants have been set on Merrimack

Street, two flush Hydrants on Central Street, and one flush Hydrant on the corner of Church and Central Streets, in place of seven old flush Hydrants taken out, and one old Hydrant on Central, corner of William Street, which has been discontinued. The Hydrant on Westford Street, corner of Howard Street, has been reset on Howard Street, and also one on Howard Street has been reset. The Hydrant at the lower end of Crosby Street has been reset, near the corner of Newhall Street, and the flush Hydrant on Kirk Street, corner French Street, has been discontinued. Repairs have been made on eighty-three Hydrants, and all the Hydrants are now in good working order.

GATES.

A six-inch gate has been set on Fourth Avenue, near Mt. Grove Street. An eight-inch gate has been set on Pawtucket Street, near School Street, and two twelve-inch gates have been set on Middlesex Street, one near Howard Street, and the other near McIntire Street.

LEAKS.

There have been four leaks in main pipes at the joints; two leaks have been found in service-pipes, in which the wrought-iron pipe was eat through in several places, and two lead connections have broken off, caused by settling of drains.

FIRE SERVICES.

A 4-inch fire service, with post-hydrant, has been put in for the protection of the property on Merrimack Street, owned by the Tremont and Suffolk Mills, and the Lawrence Manufacturing Co.; also, a 2½-inch fire-service on Chambers Street, for the United States Bunting Co. These services were put in at the expense of the owners.

In order to prevent fire-services from being used for any other purpose than the legitimate use for which they were intended by the City Ordinance, lead seals have been attached to each gate, and a printed notice posted near the gate, stating that this fire-service is sealed, and must never be used except in case of fire. If it should be needed at any other time, previous notice must be given at the Water Office, when a man will be sent to open and shut the gate and reseal it.

The number and location of the fire-services connected with the mains is as follows :

Lowell Hosiery Co., Mt. Vernon St., 4-inch pipe, 6 gates, sealed.
Lowell Hosiery Co., Broadway, 2-inch pipe, 3 gates, sealed.
Wamesit Steam Mills, Cushing St., 6-inch pipe, 1 gate, sealed.
Lowell Card Co., Shattuck St., 2-inch pipe, 3 gates, sealed.
Shaw Stocking Co., Smith St., 4-inch pipe, 3 gates, sealed.
J. C. Ayer & Co., Middle and Market Sts., $2\frac{1}{2}$ -inch pipe, 4 gates, sealed.
Davis & Sargent, Middlesex St., 4-inch pipe, 1 gate, sealed.
Kitson Machine Co., Dutton St., 4-inch pipe, 1 gate, sealed.
Lowell Bleachery, Bleachery St., 4-inch pipe, 10 gates, sealed.
J. Gates & Son, Tannery, Chelmsford St., 2-inch pipe, 3 gates, sealed.
Thorndike Manufac'g Co., Thorndike St., 2-inch pipe, 3 gates, sealed.
Belvidere Woolen Co., Lawrence St., 4-inch pipe, 1 gate, sealed.
American House, Central St., 2-inch pipe, 2 gates, sealed.

The following cannot be used except for fire, and are not sealed :

A. L. Brooks & Co., Fletcher St., 6-inch pipe, 1 gate.
Lawrence Manufacturing Co., and Tremont and Suffolk Mills, Merimack St., 4-inch pipe, 1 gate.
Belvidere Woolen Co., Howe St., 6-inch pipe, 3 gates.
United States Bunting Co., Lawrence St., $2\frac{1}{2}$ -inch pipe.
United States Cartridge Co., Lawrence St., 8-inch pipe, 2 gates, and 2 sprinklers.

MAIN-PIPE LAID.

The amount of cast-iron main-pipe laid is as follows :

Amount laid during the year 1880 . . . 12,210 feet.
 Amount previously laid 320,286 "

Total amount laid 332,496 feet, or 62.97 miles.

The 12-inch cast-iron pipe laid on Middlesex and Branch Sts. to replace the old cement-lined pipe is not included above. Length thus laid, 487 feet on Branch St., and 1,550 feet on Middlesex St.

In addition to the foregoing there was laid an amount of smaller sizes, as follows :

STREETS.	LENGTH IN FEET.				
	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in.	2 in.	$2\frac{1}{2}$ in.
April	37	. .	. .	. .
Billerica	200	. .	. .
Chambers	277
Howe's Court, off Hale Street	134	. .	. .
Cross Street Court, off Cross Street	125	. .	. .
Dudley's Court	151	. .	. .
Fulton	233	. .	. .
Frye	86	. .	. .
Gage	227	. .
Joiners' Court	120	. .	. .	. .
Leavitt	201	. .
Lincoln (for boiler works)	89	434	. .	. .	. .
Lundberg	23	. .	. .	. .
Plain	147	. .	. .	. .
School, from Branch Street	140	. .
Somerset	191	. .
Tanner	127	. .	. .	. .
Third Avenue, off Mammoth Road	230	. .	. .
Varnum Avenue	25	649	. .
Whiting's Court	178	. .	. .
South Whipple	193	. .	. .	. .
Making a total of 4,217 feet.					

PIPE CHANGED.

An amount of small pipe laid in previous years has been taken up, and larger sizes have been laid, as follows :

Everett Street, 155 feet $1\frac{1}{2}$ -inch in place of $\frac{3}{4}$ -inch.
Decatur Street, 164 feet $1\frac{1}{2}$ -inch in place of $\frac{3}{4}$ -inch.
Decatur Alley, 138 feet 1-inch in place of $\frac{3}{4}$ -inch.
Marion Street, 229 feet 4-inch in place of 1-inch.
Phillips Street, 225 feet 4-inch in place of 1-inch.
Dane Street, 210 feet 6-inch in place of 1-inch.
Swift Street, 378 feet 6-inch in place of 1-inch.
Pond Street, 253 feet 4-inch in place of 1-inch.
West Street, 100 feet 6-inch in place of $\frac{3}{4}$ -inch.
School Street, 140 feet 2-inch in place of $\frac{3}{4}$ -inch.

ITEMS OF OTHER WORK DONE.

On Thirteenth Street, 750 feet of 6-inch pipe has been lowered to conform to a change of grade in that street. A 2-inch stand-pipe has been put in on Tilden Street for Mathias Hutchins, for supplying street watering-carts. A line of 1,472 feet of 2-inch, 653 feet of 1-inch, and 85 feet $\frac{3}{4}$ -inch pipe has been laid in Edson Cemetery, for the purpose of supplying the lot-owners with water. Nine $\frac{3}{4}$ -inch stand-pipes with spring-faucets are connected on this line.

A portion of the land at the pipe-yard, 103 feet by 172 feet, has been enclosed by a slat picket-fence, 8 feet high. This area is as much as will probably ever be needed by this department for storing pipe and other materials. The remainder of the lot is now used by the Street Department for storing paving and edge-stones.

SERVICES.

During the year the water has been shut off from the premises of 38 water-takers, for non-payment of water-

rates, and the number let on upon payment of the rates is 28. The whole number remaining shut off for non-payment is 18.

The total number of services laid during the year is 423, making the whole number laid to date 5,498.

SERVICE-PIPE LAID.

The amount of service-pipe laid is as follows:

Laid during 1880, $\frac{3}{4}$ -inch	11,631 feet.
1 "	1,643 "
$1\frac{1}{2}$ "	86 "
2 "	27 "
<hr/>	
Total laid during 1880	13,387
Add amount previously laid	205,941
<hr/>	
Total amount	219,328 feet.

WATER-METERS.

The number of meters now in use is 708; of these, 124 have been set during the past year. Of the number in use, 38 are owned by this department; 17 others have been paid for by the school appropriation, 1 by the police appropriation, 1 for Edson Cemetery by Reserved Fund, and 651 are owned by water-takers. There have been taken out 149 Worthington, 9 Ball & Fitts, 19 Union rotary, and 24 Desper meters; these have all been cleaned, adjusted, and reset. Early in the summer it was found that many of the Worthington meters, which had been cleaned the year before, were getting badly clogged with rust, and it was evident that unless some way could be devised by which the meters could be kept free from rust, the small-sized Worthington meters would have to be discarded. A plan was finally adopted for coating the meter with a

preparation of coal-tar, which so far appears to work well.

Whenever meters are found to be filling up with rust, they are taken off, and carried to the meter-room at the pipe-yard, where they are first tested in regard to registration; when they are taken apart, the rust cleaned off, and the meter submerged in strong potash-water for about 24 hours; when they are taken from this bath they are washed and scraped thoroughly, and each piece appears as clean as a new casting. The pieces are then taken to the Pumping-station, where they are submerged in a solution of coal-tar, diluted with dead-oil, which is heated to 300 degrees temperature. After remaining in the tar till the iron reaches the same temperature they are taken out, and after cooling are submerged a second time; they are then taken out and plunged into a bath of cold water, which sets the tar and leaves the surface perfectly smooth, with a coating similar to enamel. The castings are then taken back to the meter-room, the brass bearings cleaned and scraped, and the valves ground in with fine emery, and the meter put together and carefully tested and adjusted, when it is ready to be reset. One hundred and fifteen meters have already been treated in this manner, and an examination of one of the first ones subjected to this treatment, set and run over six months, showed perfect registration, and but little sediment had formed in it.

Many of the rotary meters set last year are already badly worn, and need constant inspection to get accurate results. So far the Desper meters are working well, but it is doubtful if any meter can be used many months without wearing, and continually needing repairs.

The kinds and sizes of meters now in use are shown by the following

TABLE OF METERS IN USE DEC. 31, 1880.

KINDS.	$\frac{5}{8}$ in.	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in	2 in.	3 in.	4 in.		Totals.
H. R. Worthington, New York,	331	27	47	4	10	2	2	. .	423
W. E. Desper & Co., Worcester,	66	34	14	. .	. .	. .	. .	. .	114
Ball & Fitts	30	20	2	1	. .	. .	. .	. .	53
Fitts' Rotary	82	19	7	5	3	. .	. .	. .	116
Motor Register . . . . .	. .	. .	. .	. .	. .	. .	. .	2	2
Totals	509	100	70	10	13	2	2	2	708

WATER-TAKERS.

The whole number of water-takers (which includes each family, shop, store, office, and other place where city water is used), is as follows :

In metered premises (estimated)	. . . . .	3,676
In all other premises . . . . .	. . . . .	8,522
Total number of water-takers	. . . . .	12,198

Water is supplied for the following uses: Families, animals (horses and cows), apothecaries, aquaria, armories, auction-room, banks, bar-rooms, bath-rooms, barber-shops, bakeries, bill-posters, billiard-rooms, binderies, boiler-works, bonnet-bleachery, brass-finisher, bowling alley, boat-house, bleacheries, blacksmith-shops, bottlers, building purposes, cemeteries, churches, coal-yards, county jail, county court-house, city hall, city stable, club-room, dentists' rooms, dye-houses, eating-houses, foundries, grist-mill, gardens, galvanized iron-works, halls, homes, orphanages and asylums, hotels, holly-tree inns, hospitals, hot-houses, horse-railroad stable, ice-houses, laboratory, laundries, licensed victuallers and innholders, letter-cutting, markets (meat and fish), marble-works, Masonic temple, machine-shops, machine print-

ing. Also, for manufactories as follows: Belt, bobbin, beer, box, cap, carriage, clothing, cigar, cologne, confectionery, card-clothing, coffee-mill, cartridges, cap-tubes, curtain-fixtures, coffin, cloak, cider, comforter, croquet, drain-pipe, felting, file, furniture, felt-roof, glove-cleaning, glove, hosiery, harness (loom and carriage), hat, jack-screw, organ, patent medicine, pattern-makers, paper-box, paper-bag, pickle, pistol, picture-frame, machine-knives, sausage, set-screw, scale, stamp, soap, suspender, strap, shuttle, shoe-jack, soda, shirt, sash and blind, spring, shoe, wire goods, woolen goods, worsted yarn, wooden ware, and for other purposes as follows: Old Ladies' Home, offices, pork-packers, public libraries, post-office, print-works, police-station, police courtroom, photograph-galleries, planing-mills, plaster-works, reading-rooms, lodging-rooms, railroads (viz: depots, car-houses, engine-houses), rectifiers, roll-coverers, stand-pipes, shops, slaughter-houses, stone-yards, school-houses, saloons, stables, steam fire-engine houses and hook-and-ladder houses, tanneries, trunk-maker, wood-yards, undertakers, Young Women's Home.

The number of abatements made during the year is 352; amount \$2,239.31, to wit:

ON WATER RATES OF	1877.	1878.	1879.	1880.	Totals.
For vacant premises . .	\$6 00	\$12 95	\$220 49	\$161 60	\$401 04
For changes to metered rates . . . . .	. . .	. . .	. . . .	397 89	397 89
For hose . . . . .	. . .	. . .	. . . .	208 00	208 00
For persons less . . . .	. . .	. . .	. . . .	22 12	22 12
For animals . . . . .	. . .	. . .	. . . .	83 73	83 73
<i>Amounts carried forward,</i>	\$6 00	\$12 95	\$220 49	\$873 34	\$1,112 78

ON WATER RATES OF	1877.	1878.	1879.	1880.	Totals.
<i>Amounts brought forward,</i>	\$6 00	\$12 95	\$220 49	\$873 34	\$1,112 78
For wrong charges . . .	. . .	. . .	55 65	166 70	222 35
For allowances . . . .	. . .	5 41	124 69	160 95	291 05
For changes in fixtures .	. . .	. . .	. . . .	29 99	29 99
For accounts transferred,	. . .	. . .	. . . .	14 85	14 85
For non-collectible . . .	. . .	18 00	. . . .	. . . .	18 00
For deposits by masons,	. . .	. . .	103 88	20 00	123 88
For fee returned . . . .	. . .	. . .	2 00	. . . .	2 00
For metered water . . .	. . .	. . .	90	285 77	286 67
	\$6 00	\$36 36	\$507 61	\$1,551 60	\$2,101 57
For pipe . . . . .	. . .	. . .	19 62	11 07	30 69
For meters . . . . .	. . .	. . .	. . . .	107 05	107 05
Totals	\$6 00	\$36 36	\$527 23	\$1,669 72	\$2,239 31

In closing this Report I wish to tender my sincere thanks to the members of the Water Board, for kindness and courtesy shown to me during the past year.

Respectfully submitted,

HORACE G. HOLDEN,

Superintendent.

SCHEDULE No. 1.

WATER PIPES LAID IN 1880.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.			
		8 inch.	6 inch.	4 inch.	Total.
A	From Powell westerly . . . . .	..	910	..	910
B	From Powell westerly . . . . .	..	269	..	269
Blossom . .	Extended westerly . . . . .	..	72	..	72
Chambers . .	Extended northwesterly . . . . .	..	199	..	199
C	Extended westerly . . . . .	..	215	..	215
Canton(South)	Southerly from Westford . . . . .	..	228	..	228
Canton . . .	Extended north'ly toward Middlesex . .	..	410	..	410
Columbus Av.,	From Wilder easterly . . . . .	..	355	..	355
Dane	From Salem westerly . . . . .	..	210	..	210
Eighth . . .	From Methuen westerly . . . . .	..	210	..	210
First	From Simpson easterly . . . . .	..	195	..	195
Fremont . .	From Sixth northerly . . . . .	..	545	..	545
Fourth Av. .	Extended easterly to Mt. Hope . .	..	127	..	127
Jewett . . .	Extended north'ly to Richardson av.,	..	30	..	30
John	Extended northeasterly from Lee . .	..	102	..	102
Kinsman . .	From Whipple westerly . . . . .	..	..	114	114
Kinsman . .	Crosby and Floyd . . . . .	..	28	294	322
Liberty . . .	Extended westerly . . . . .	..	30	..	30
Lyon	From Kinsman northwesterly . . .	..	266	..	266
Mount Hope.	Second Ave. and Fourth Ave. . .	..	370	..	370
<i>Amounts carried forward</i>		..	4,771	408	5,179

SCHEDULE No. 1—CONTINUED.

WATER PIPES LAID IN 1880.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.			
		8 inch.	6 inch.	4 inch.	Totals.
	<i>Amounts brought forward . . .</i>	. .	4,771	408	5,179
Marion . . .	Lagrange and Broadway . . . . .	. .	. .	229	229
Manchester .	From Gorham westerly . . . . .	. .	940	. .	940
Maple . . .	Extended westerly to West . . . . .	. .	. .	135	135
Mount Vernon	Pawtucket and Bowers . . . . .	. .	730	. .	730
Nineteenth .	Extended westerly . . . . .	. .	92	. .	92
New Fletcher,	From Powell southeasterly . . . . .	. .	509	. .	509
Phillips . . .	From Broadway northerly . . . . .	. .	. .	225	225
Powell . . .	From Liberty southerly . . . . .	. .	514	. .	514
Pond	High and Pleasant . . . . .	. .	. .	253	253
Porter . . .	Extended northerly	150	. .	. .	150
Perrin . . .	From School westerly . . . . .	. .	. .	331	331
Richardson av.	From Jewett westerly . . . . .	. .	. .	192	192
Second ave. .	From Mt. Hope westerly . . . . .	. .	132	. .	132
Second ave. .	Extended easterly . . . . .	. .	185	. .	185
Swift	Lawrence and Whipple . . . . .	. .	378	. .	378
Stevens . . .	Extended southerly toward Parker,	208	. .	. .	208
School . . .	From Liberty southerly . . . . .	. .	628	. .	628
West Adams,	From Wilder easterly . . . . .	. .	242	. .	242
West Adams,	From Walker westerly . . . . .	. .	93	. .	93
Westford . .	Extended westerly to Stevens . . .	434	. .	. .	434
West	Extended easterly . . . . .	. .	144	. .	144
<i>Amounts carried forward</i>		792	9,358	1,773	11,923

SCHEDULE No. 1.—CONCLUDED.

WATER PIPES LAID IN 1880.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.			
		8 inch.	6 inch.	4 inch.	Totals.
	<i>Amounts brought forward . . .</i>	792	9,358	1,773	11,923
West (Ward 3)	Maple and Lincoln . . . . .	. .	. .	232	232
Hydrants . .	. . . . .	. .	55	. .	55
Total in feet		792	9,413	2,005	12,210
Pipes laid previous to 1880 . . . . .		. .	. .	. .	320,286
Total in feet, January 1, 1881 . . . . .		. .	. .	. .	332,496
Total in miles, January 1, 1881 . . . . .		. .	. .	. .	62.97

IRON PIPE LAID TO REPLACE OLD CEMENT PIPE.

Branch Street, between Smith and Middlesex Streets, 487 feet 12-inch.

Middlesex Street, between Branch and Thorndike Streets, 1,550 feet 12-inch.

SCHEDULE No. 2.

LIST OF HYDRANTS SET IN 1880.

STREETS.	LOCATION.
A P	Northerly side, 896 feet from Powell Street.
*Branch . . . P	Southerly side, nearly opposite Branch Street church.
*Branch . . . F	Southerly side, corner of Smith Street.
*Branch . . . F	Southerly side, 3 feet east of east line of Nichols Street.
Chambers . . . P	Northerly side, 252 feet northwesterly from Kinsman Street.
Church . . . F	Southerly side, 8 feet east of east line of Central Street.
*Central . . . F	Westerly side, 2 feet north of south line of Middle Street.
*Central . . . F	Westerly side, 6 7-10 feet north of north line of Market St.
Fremont . . . P	Easterly side, 500 feet northerly from Sixth Street.
Kinsman . . . P	Northerly side, corner of Crosby Street.
*Middlesex . . P	Southerly side, corner of McIntire Street.
Manchester . . P	Northerly side, 526 feet from Gorham Street.
*Middlesex . . P	Southerly side, on west line of Carleton Street.
*Middlesex . . P	Southerly side, 10½ feet west of west line of Howard Street.
*Middlesex . . F	Southerly side, 16 feet west from west rail of N. & L. R. R.
*Middlesex . . F	Southerly side, on west line of Thorndike Street.
*Merrimack . . F	Southerly side, 11½ feet east of east line of John Street.
*Merrimack . . F	Northerly side, opposite entrance to Masonic Temple.
*Merrimack . . F	Southerly side, 150 feet east of east line of Kirk Street.
*Merrimack . . F	Northerly side, 8 3-10 feet east of east line of Anne Street.

F denotes flush hydrant.

P denotes post hydrant.

* Replaced flush hydrant (old pattern).

The following hydrants have been discontinued: Central Street, at corner of William Street; Kirk Street, at corner of French Street.

NOTE. — At the bottom of the list of hydrants in the report for 1879 the * and † should be transposed.

SCHEDULE No. 3.

LIST OF GATES SET IN 1880.

STREETS.	LOCATION.	12 inch.	8 inch.	6 inch.	4 inch.
A	15 feet south from the north line of A Street, 3½ feet west from the west line of Powell Street,			1	
B	7½ feet south from north line of B street, 1 foot west from west line of Powell Street,			1	
Canton . . .	11½ feet west from east line of Canton Street, 2 feet north from north line of Westford Street,			1	
Columbus Ave.	10 feet south from north line of Columbus Avenue, 4½ feet east from east line of Wilder Street,			1	
Fremont . .	13½ feet westerly from easterly line of Fremont St., 5 feet northerly from northerly line of Sixth Street,			1	
Kinsman . .	9 feet north from south line of Kinsman Street, 2 feet east from west line of Whipple Street,				1
Kinsman . .	11 feet s'easterly from n'westerly line of Kinsman St. 14 feet n'easterly from n'easterly line of Crosby St.				1
Lyon	10 feet n'easterly from s'westerly line of Lyon St., 2½ ft. n'westerly from n'westerly line Kinsman St.			1	
Mt. Grove . .	17½ feet west from the east line of Mt. Grove St., 4 feet south from the north line of Fourth Avenue,			1	
Mt. Vernon .	18 feet west from the east line of Mt. Vernon St., 16 feet south from the south line of Pawtucket St.,			1	
Manchester .	18 feet south from the north line of Manchester St. 2 feet west from the west line of Gorham Street,			1	
Middlesex .	18 feet north from the south line of Middlesex St., 2 feet east from the west line of Howard Street,	1			
Middlesex .	18 feet north from the south line of Middlesex St., 119 feet east from the east line of McIntire Street,	1			
New Fletcher,	22 ft. south from the north line of New Fletcher St. 2 ft. n'easterly from the n'easterly line of Powell St.			1	
Pawtucket .	15 feet north from the south line of Pawtucket St., 16 feet east from the easterly line of School Street,	1			

SCHEDULE No. 3 — CONTINUED.

LIST OF GATES SET IN 1880.

STREETS.	LOCATION.	12 inch.	8 inch.	6 inch.	4 inch.
Phillips . . .	13 feet west from the east line of Phillips Street, 9 feet north from the north line of Broadway,				1
Perrin . . .	11 feet south from the north line of Perrin Street, 2 feet east from the west line of School Street,				1
Pond	14 feet south from the north line of Pond Street, 6 feet west from the west line of High Street,				1
Powell . . .	14½ feet east from the west line of Powell Street, 33 feet south from the south line of Liberty Street,			1	
School . . .	14 feet east from the east line of School Street, 3½ feet south from the south line of Liberty Street,			1	
Swift	7 feet north from the south line of Swift Street, 2½ feet west from the west line of Lawrence Street,			1	
West Adams.	11 feet south from the north line of West Adams St. 5½ feet east from the easterly line of Wilder Street,			1	
West(Ward 3)	13½ feet west from the easterly line of West Street, 1 foot north from the north line of Lincoln Street,				1
Westford . .	18 feet south from the northerly line of Westford St. On east line of Stevens Street,		1		

SCHEDULE No. 4.

PROPERTY AT PIPE YARD, JAN. 1, 1881.

CAST-IRON PIPE AND SPECIAL CASTINGS.

DIAMETER IN INCHES	4	6	8	12	16	20	24	30	10
Lengths	15	11	37	26	12	21	10	15	..
Cut pieces, total length in feet .	10	9	16	22	..	60	..	32	..
Curves, total number	1	25	9	9	1	12	6	6	..
Sleeves, " "	27	13	28	15	2	2	10	5	6
Half Sleeves, " " . . . .	..	..	..	17	4	14	..	6	..
Caps, " "	24	4	34	15	4	1	1	..	..

	4x4	4x6	6x6	6x8	6x12	6x16	8x8	8x10	8x12	10x12	12x12	12x16	16
4-Ways,	6	..	6	4	..	..	6	1	3	2	2	2	1
3-Ways,	7	..	17	1	17	..	16	..	10	..	2	..	..
Reducers	..	8	..	17	2	..	..	1	2	3	..	3	..

Wrought-Iron Pipe. — 50 feet 2-inch pipe, 120 feet 1½-inch pipe, 600 feet 1-inch pipe, 450 feet ¾-inch pipe, 50 feet ½-inch pipe, 30 feet ¼-inch pipe. **One post hydrant, 6 hydrant-box frames, 4 hydrant-box covers,** 3 gate-box frames, 3 gate-box covers, 4 old style gate covers. **Lead Connections.** — 2 1-inch, 7 ¾-inch, 4 ⅝-inch, 3 ⅝-inch for cement pipe. **Corporation Cocks.** — 3 1-inch, 2 ¾-inch, 7 ⅝-inch, 9 1-inch for cement pipe, 13 ¾-inch for cement pipe, 11 ⅝-inch for cement pipe. **Stop and Waste Cocks.** — 5 2-inch, 28 1-inch, 50 ¾-inch, 17 ¾-inch old style. **Solder Nipples.** — 68 ⅝-inch. **Unions.** 2 2-inch, 16 1-inch, 17 ¾-inch, 18 ⅝-inch. **Sockets.** — 70 1-inch, 80 ¾-inch, 14 ⅝-inch. **Turns.** — 6 1 x ¾-inch, 48 1-inch, 18 ¾-inch, 16 1-inch ⅛ turn, 7 ¾-inch ⅛ turn, 4 2-inch. **Plugs.** — 10 1-inch, 8 ¾-inch, 8 ⅝-inch, 4 ½-inch. **Couplings.** — 25 2-inch, 16 1½-inch. **Bushings.** — 2 1-inch, 5 ¾-inch, 3 2-inch. **4-Ways.** — 6 1½ x ¾-inch, 60 ¾ x ¾-inch, 5 2 x ¾-inch, 1 2 x ½-inch, 1 1½ x 1-inch, 42 1-inch. **3-Ways.** — 7 2 x 1-inch, 8 2 x ¾-inch, 1 1½ x 1½-inch, 1 1½ x 1-inch, 2 7 x ¾-inch, 36 ¾ x ¾-inch. **Sundries.** — 9 1-inch caps, 8 second-hand hydrants, 12 wheelbarrows, 1½ cords wood, 1 cord logs for blasting purposes, 2 derricks, shear poles, 3 M. feet kianized lumber, 1 M. feet planks,

20 M. feet old lumber, 6 work benches, 3 ton iron junk, 1 large map locating main pipe, 1 foot lathe, 1 coal-hod, 1 coal stove, 1 framing square, 2 water tanks, 2 zink pumps, 1 counter scale, 1 platform scale, 4 tool chests, 4 cane-seat chairs, 1 street fountain, 1 12-foot ladder, 1 apparatus for testing meters, 1 apparatus for testing pipe, 1 copper suction-pump, 1 force pump, 3 tapping machines, 3 brooms, 6 galvanized-iron pails, 1 keg 10^d nails, 1 wagon wrench, 25 assorted wrenches, 9 monkey-wrenches, 8 rammers, 3 paving mauls, 30 shovels, 20 picks, 3 hoes, 4 draught chains, 1 wrapping chain, 1 bbl. cement, $\frac{1}{2}$ bbl. white clay, 20 lbs. jute gasket, 3 lead pots, 1 lead furnace, 2 snow shovels, 2 doz. new pick-handles, 3 nipping-bars, 4 crowbars, 60 feet rubber hose, 1 hose reel, 1 copper goose-neck, 1 brass reducer, 2 portable closets, 1 doz. lanterns, 4 doz. lantern wecks, 3 hand-saws, 1 leather tool bag, 1 tin match safe, 1 doz. piston rods for meter, 1 duster, 18 calking sets, 2 nail hammers, 8 striking hammers, 2 paving hammers, 2 stone hammers, 2 sledge hammers, 6 rubber connections, 1 fore-plane, 12 feet drain pipe, 551 sidewalk box caps, 3 pairs rubber boots, 100 feet canvas hose, 1 portable iron forge, 20 iron lug-straps, 350 lbs. iron bolts, 1 keg spikes, 26 iron valves for hydrants, 25 rubber packings for hydrants, 3 syphons with pipe attached, 6 iron stop boxes, 3 solder furnaces, 1 sprinkling-pot, 2 iron wood mallets, 4 solder irons, 10 assorted files, 12 gravel screens with fixtures, 5 hanging irons for pipe under bridges, 23-foot iron screws, 1 iron tube-pump with boring machine, 1 bale sand bags, 1 machine for cement-lining pipe, 10 iron bands for main pipe, 25 lbs. cotton waste, 3 hydrant dippers with chains, 1 press-drill, 2 washer cutters, 1 grindstone, 300 lbs. iron, 1 set blacksmith tools, 10 lbs. iron washers, 30 lbs. assorted nuts, 6 calking hammers, 100 lbs. extra brass hinges, 7 screw drivers, 1 set steel numbers, 1 dog lathe, 2 hatchets, 2 axes, 4 $\frac{5}{8}$ -inch brass faucets, 3 lbs. red pipe-lead, 30 brass seals, 1 ratchet die, 528 lbs. steel in drills, 5 blasting spoons, 6 pipe wedges, 4 yarning irons, 1 sieve, 3 spades, 4 pipe-vises, iron bucket for testing meters, 8 cold-chisels, 1 bit-stock, 3 bits, 3 large lead ladles, 2 small lead ladles, 5 sling-ropes, 30 lbs. rubber, 4 dies, 3 die-plates, 17 pairs pipe-tongs, 2 pipe-cutters, 2 trowels, 8 assorted gate screws, 5 rubber connections, 3 iron-tooth rakes, 2 saw-horses, 2 buck-saws, 1 framing chisel, 2 ice-chisels, 2 square shovels, 18 assorted wood plugs for main, 8 lbs. shims and wedges, 4 paving plank, 2 root axes, 1 dualing pot, 1,000 lbs. iron in rods, 1 10-gallon kerosene can, 1 8-gallon can, 1 5-gallon can, 1 2-gallon can, 2 1-gallon cans, 3 $\frac{1}{2}$ -gallon cans, 1 2-quart tin measure, 1 4-quart wooden measure, 1 tunnel, 1 bbl. charcoal, 2 desks, 1 40-foot leather belt, 1 blacksmith shop, 1 work shop, 1 carriage house, 1 stable, 1 shed for storage, 1 grain box, 1 horse, 2 harnesses, 1 canvas horse-cover, 1 rubber horse-cover, 2 horse blankets, 2 surcingles, 1 manure fork, 2 hay forks, 1 horse card, 1 curry-comb, 1 horse brush, 2 dusters, 2 halters, 1 wagon-jack, 1 pung, 2 express wagons, 3 $\frac{5}{8}$ -inch Worthington meters, second-hand, 1 1-inch, second-hand, 1 1-inch F. R., second-hand, 3 $\frac{5}{8}$ -inch, second-hand, 1 $\frac{5}{8}$ -inch Desper, new.

Tools at Filter Inlet.

2 iron-tooth rakes, 11 shovels, 1 rammer, 1 axe, 2 ice-chisels, 1 gate wrench, 1 nail hammer, 1 pick, 2 brooms, 1 wheelbarrow.

Tools at Reservoir.

1 grindstone, 2 iron rakes, 3 forks, 6 shovels, 1 sod cutter, 1 axe, 1 saw, 2 hoes, 2 scythes, 2 sneaths, 1 grass hook, 1 wheelbarrow, 1 coil rope, 2 spare screws, 2 thermometers, 1 lantern, 1 snow shovel, 1 iron bar.

Property in Water Board and Superintendent's Office.

22 chairs, 1 letter press, 2 stools, 3 desks with draws, 3 standing desks, 3 office tables, 1 book case, 1 clock, 3 thermometers, 5 ink-stands, 1 water cooler, 1 tumbler, 4 maps of Lowell, 1 map of water distributing-pipes, 3 waste baskets, 3 mats, 3 hat-racks, 6 spittoons, 9 assorted wrenches, 1 tin match safe, 1 lantern, 8 sticks sealing wax, 1 water gauge, 2 screw drivers, 2 monkey-wrenches, 2 files, 2 hydrant dippers, 1 safe, 1 key-rack, 2 picks, 1 steel prodding-bar, 1 shovel, 1 atlas of Lowell, 1 atlas of Middlesex County.

Property and Tools at Engine House.

1 vise, 1 work bench, 8 sets brasses for engine, 2 sets differential blocks, 1 piece 2-inch rope, 2 sets fire irons, 1 brass hydrant, 3 axes, 11 wrenches, 1 hand-saw, 2 jack-screws, 26 cold-chisels, 1 ratchet drill, 1 socket drill, 3 calking chisels, 1 barometer, 2 thermometers, 1 water cooler, 1 desk, 1 indicator 1 oil cupboard, 2 oil dishes, 1 screen for well, 1 platform scale, 4 crowbars, 64 feet $\frac{5}{8}$ -inch chain, 16 eye bolts, 1 truck, 1 key wrench, 1 wrench for air pump, 1 iron wheelbarrow, 2 hand-saws, 1 buck-saw, 1 saw-horse, 2 gas lamps, 1 high grade thermometer, 4 brass bolts, 1 $\frac{1}{2}$ -inch diameter, for pump valves, 5 spare pump valves, 5 sets spare weights for valves, 11 socket wrenches, 7 pairs gas tongs, 11 finished wrenches Morris engine, 12 finished wrenches Worthington engine, 3 sledge hammers, 12 drills, 1 black walnut cabinet, 9 chains, 2 lengths hose, 6 copper lamps, 4 shovels, 1 floor brush, 100 bolts, assorted sizes, 2 bit-stocks, 3 bits, 1 25-foot ladder, 1 20-foot, 1 8-foot, 1 pair steps, 1 hoe, 2 racks, 1 fore-plane, 3 monkey-wrenches, 100 feet 2-inch rope, 4 chisel bars, 1 small die plate, 6 small taps, 4 finished socket wrenches for Worthington engine, 2 14-quart iron pails, 6 spare rubber valves, 1 clock, 4 hand-hammers, 2 spare rubber valves for air pump, 1 extra set of grates for boiler, 1 grindstone, 1 anvil, 2 shovels.

ANNUAL REPORT
OF THE
CITY MARSHAL
OF THE
CITY OF LOWELL,
FOR THE YEAR 1880.



LOWELL, MASS.:
Printed by Campbell & Hanscom, Morning Times, 22 Central Street.
1881.

REPORT.

CITY MARSHAL'S OFFICE. }
LOWELL, NOV. 30TH, 1880. }

*To the Honorable the City Council of the City of
Lowell:*

GENTLEMEN: In accordance with the requirements of the City Ordinances I herewith submit the following report of the doings of the Police Department for the year ending Nov. 30th, 1880, together with such other information as is deemed of interest to your honorable body and our citizens generally.

The entire force of the department comprises fifty-eight men, exclusive of the Marshal, and they are divided into day and night squads.

WHOLE POLICE FORCE, RANK AND FILE.

- 1 CITY MARSHAL.
- 1 DEPUTY MARSHAL.
- 1 DEPUTY AND CAPTAIN OF POLICE.
- 2 SERGEANTS.
- 2 WARRANT OFFICERS.
- 2 DETECTIVES.
- 2 DETAILED FOR LIQUOR PROSECUTIONS.
- 2 KEEPERS OF POLICE STATION.
- 8 DAY PATROL.
- 28 NIGHT PATROL.
- 10 SUPERNUMERARIES.

REPORT OF THE

DAY FORCE.

The day force comprises seventeen men who report at eight o'clock a. m., and remain upon duty until seven o'clock p. m. The office men remain until nine o'clock p. m.

OFFICE FORCE.

ALBERT PINDER, City Marshal.
JACOB G. FAVOR, Deputy Marshal.

Detectives.

M. E. McDONALD, D. M. HAYES.

Warrant Officers.

HARRISON H. FULLER, DANIEL WALKER.

Seizure Officers.

SIMON B. HARRIS, J. F. McCAFFREY.

NIGHT FORCE.

The night force comprises one Deputy and Captain of Police, one Sergeant and twenty-eight patrolmen and ten Supernumeraries, who are required to report at the police station-house at six o'clock and forty-five minutes in the afternoon, and to remain upon duty until five the following morning, allowing each of them forty minutes for lunch.

MORNING DUTY.

The detail for morning duty by which officers are required to remain upon duty on Merrimack, Cen-

tral and Middlesex streets, to fill the vacancy from the time the night force leave their duties in the morning until the arrival of the day officers, has proven very satisfactory.

WORK OF THE DEPARTMENT.

The work performed by the members of the department commenced on the first day of December last, that being the commencement of the municipal year, and that portion of the labor which has become a matter of record is as follows :

LODGERS.

The whole number admitted for lodging was	. . . . .	1,252
Males . . . . .	. . . . .	1,193
Females . . . . .	. . . . .	59
Foreigners . . . . .	. . . . .	1,016
Americans . . . . .	. . . . .	236
Minors . . . . .	. . . . .	118
Non-Residents . . . . .	. . . . .	1,211
Colored . . . . .	. . . . .	3

WHOLE NUMBER ARRESTED.

The whole number arrested was	. . . . .	2,776
Males . . . . .	. . . . .	2,297
Females, . . . . .	. . . . .	479
Foreigners, . . . . .	. . . . .	2,328
Americans, . . . . .	. . . . .	448
Minors, . . . . .	. . . . .	484
Non-Residents, . . . . .	. . . . .	423
Colored, . . . . .	. . . . .	8

REPORT OF THE

CAUSES OF ARRESTS.

Common Drunkard,	82
Drunkenness, second offence,	44
Drunkenness, third offence,	31
Drunkenness,	1,603
Assault and Battery,	213
Breaking and Entering,	21
Disturbing the Peace,	48
Larceny,	189
Safe Keeping,	119
Vagrancy,	24
Breaking Glass,	24
Unlawfully Taking and Driving a Horse,	7
Adultery,	12
Fornication,	18
Illicit Cohabitation,	6
Obtaining Goods by False Pretences,	7
Suspicious Persons,	27
Malicious Mischief,	9
Insane,	18
Disobedient Child,	19
Embezzlement,	7
Forgery,	1
Keeping Unlicensed Dog,	2
Doing Business on Lord's Day,	8
Unlawfully Removing Baggage,	7
Using Threatening Language,	16
Lewd and Lacivious Persons,	2
Selling Liquor on Lord's Day,	5
Unlawfully Keeping Liquor,	20
Keeping Liquor Nuisance,	9
Selling Liquor to be Drank off Premises,	1
Selling Liquor to Minors,	4
Unlawful Sale of Liquor,	3
Selling Liquor to Persons Intoxicated,	1
Violation of Vault Ordinance,	4
Unlawfully Bathing in City,	7

CITY MARSHAL.

7

Truancy,	39
Playing Game in Street.	2
Obstructing Street,	14
Wandering about Street,	5
Violation Snow Ordinance,	1
Discharging Fire Arms in City,	1
Discharging Fire Crackers in City,	1
Capias from Superior Court,	3
Keeping Noisy and Disorderly House,	1
Playing Game on Lord's Day,	9
Selling Obscene Pictures,	1
Violation Sewer Ordinance,	1
Violation of Milk Law,	4
Common Street Piper,	2
Setting Fire in Woods,	2
Evading Railroad Fare,	4
Indecent Exposure of Person,	1
Peddling without License,	2
Concealing Mortgaged Property,	1
Defrauding Inn Holder,	1
Escaped Prisoner,	13
Committing Nuisance,	7
Arson,	1
Night Walking,	6
Attempt to Rape,	1
Rape,	1
Tramp,	1
Disturbing School,	4
Bastardy,	19
Delirium Tremens,	4
Disordely Conduct,	4
Contempt of Court,	3
Cruelty to a Horse,	3
Railer and Brawler,	1
Setting Bonfire,	1

REPORT OF THE

PROSECUTIONS.

The whole number of prosecutions before the police court, for the following offences, was 1,713.

Common Drunkard,	80
Drunkenness, second offence,	40
Drunkenness, third offence,	31
Drunkenness,	867
Assault and Battery,	190
Breaking and Entering,	20
Larceny,	165
Vagrancy,	19
Breaking Glass,	15
Disturbing the Peace,	40
Unlawfully Taking and Driving a Horse,	5
Adultery,	12
Fornication,	18
Obtaining Goods by False Pretences,	4
Malicious Mischief,	7
Disobedient Child,	11
Embezzlement,	6
Removing Baggage,	7
Threatening Language,	11
Escaped Prisoners,	4
Bastardy,	11
Lewd and Lascivious,	2
Illicit Cohabitation,	4
Concealing Mortgaged Property,	1
Forgery,	1
Violation of Lord's Day,	9
Selling Liquor Sunday,	5
Unlawfully Keeping Liquor,	19
Keeping Liquor Nuisance,	9
Selling Liquor to be Drunk off Premises,	1
Selling Liquor to Minors,	5
Unlawful Sale of Liquor,	2
Unlawful Sale to Persons Intoxicated	1

CITY MASILAL.

9

Violation Vault Ordinance.	2
Obstructing Street.	6
Truancy,	39
Fast Driving,	2
Unlawfully Bathing in City,	1
Playing Game in Street,	2
Wandering about Street,	4
Violation Snow Ordinance.	1
Violation Sewer Ordinance	1
Contempt of Court,	1
Common Street Piper,	2
Disturbing School,	4
Peddling Without License,	1
Cruelty to a Horse,	3
Keeping Unlicensed Dog.	2
Rape,	1
Keeping Noisy and Disorderly House,	1
Common Railer and Brawler.	1
Tramp,	1
Night Walking,	3
Playing Game on Lord's Day,	4
Blackmailing,	3
Violation Milk Law,	4
Arson,	1
Attempt to Rape,	1

NOT GUILTY AND DISCHARGED.

The whole number found not guilty and discharged, for the following cases, was 33.

Assault and Battery,	19
Taking and Driving a Horse.	1
Keeping Liquor,	7
Keeping Liquor Nuisance,	1
Selling Liquor Sunday,	1
Selling Liquor to Minor,	2
Cruelty to a Horse,	2

CITY ORDINANCE CASES.

The whole number of city ordinance cases, for the following offences, was 69.

Truancy,	39
Violation Vault Ordinance,	4
Wandering about Streets,	5
Playing Game in Street,	1
Obstructing Street,	10
Violation Snow Ordinance,	1
Unlawfully Bathing,	6
Discharging Fire Arms in City,	1
Violation Sewer Ordinance,	1

ACCOUNT OF MONEY TAKEN FROM AND RETURNED
TO PRISONERS.

The amount of money taken from, and returned to, persons committed was \$4,138.95.

ORDINANCE CASES REPORTED.

Defective Streets, and Sidewalks,	78
Defective Lamps and Burners,	729
Defective Cess-pools,	5
Defective Hydrants,	3
Obstructions removed from Streets and Sidewalks,	90
Assisted home drunk,	946
Disturbances quelled without arrests,	1,341
Drains, Vaults, and Nuisances, reported	20
Lost Children returned to parents,	44
Stray Teams put up at stables,	57
Store Doors found Open, and secured,	65

STOLEN PROPERTY REPORTED.

The amount of property reported as stolen was \$9,987.76.

PROPERTY RECOVERED.

The amount of property recovered and returned to owners was \$7,442.07.

By examination of the statistics in the report that relates to stolen property, it will be seen that the efficiency of the force during the past year is equally as good as that of any previous year.

WARRANT OFFICERS.

These officers have charge of all warrants that are issued by the Police Court. They keep a docket of the same, act as court officers, serve warrants, summon all witnesses, have charge of the transferring of all prisoners to and from the court to the different institutions. Amount of fees earned by these officers is about \$5,000.

MONEY TAKEN FROM PRISONERS.

The amount of money taken from prisoners when arrested and returned to them when convicted or discharged was \$4,138.95.

DETECTIVES.

This branch of the service is one of great importance and much depends upon the officers' sagacity and diligence in order to be successful in working up criminal cases. He should have a knowledge of the criminal class, good memory, courage and energy, be skillful in obtaining evidence, and quick in following it up; and endowed with a good share of common sense, which is really one of the most important qualifications. I am persuaded that the officers serving in that capacity are competent and discharge their duties in a satisfactory manner. The apprehension and conviction of a large number of criminals show that the detectives are men well up to the requirements, and as such have maintained their reputations, and a desire and ability to perform their duties.

DISCHARGES FROM THE DEPARTMENT.

The following is a recapitulation of trials of officers, against whom charges were preferred, and the findings of the Committee on Police in each case :

Henry J. Freeman, intoxication, discharged.

John C. Cox, " "

John H. Griffin, " "

James McLaughlin, insubordination, "

Daniel D. Driscoll, conduct unbecoming an officer, allowed to resign.

John C. Furlong, " " " " dis.

John O'Connell, cowardice, discharged.

Albert E. Libby, cowardice, fined a week's pay,
and reprimanded by vote of the Board of Aldermen.

Augustus Weymouth, resigned.

John L. Stevens. "

William P. Farrington, "

There have been added to the police force during
the year the following :

WILLIAM R. KEW,	CHARLES C. PACKARD,
SUMNER T. MITCHELL,	JOHN O'CONNELL,
WILLIS T. GARDNER,	PETER CORCORAN,
CHARLES GREGG,	GEORGE F. DUNLAVY,
JAMES DUNLAVY,	ALEXANDER W. HARPER,
JOHN HIXON,	CHARLES J. MORSE,
EDWIN A. STACKPOLE.	

COMMON POLICE.

During the spring the special police who had formerly patrolled the commons, were discontinued, and detail from the regular force to patrol the commons was made. This arrangement went into effect about the first of May and continued until the first of November, and the duty has been performed in such a manner as to meet the approval of those in the habit of visiting those resorts.

PRISONERS' WAGON.

The need which has long been felt for a suitable means for conveying prisoners, to and from the jail, has been supplied during the year, and the demand for it has been of almost daily occurrence.

TELEPHONE.

The Telephone which has been in operation in this department during the past year and which connects with the Mayor's office and City Farm has proved very satisfactory as a police telegraph, fully meeting all the requirements for the purposes for which it was intended.

LOCK UP.

I would respectfully recommend that a suitable place in Ward No. Four be fitted for a lock up. It would be a very great public convenience for officers, and prisoners arrested in that section of the city, and I hope the committee on police will give it their attention.

TRAMPS.

The number of persons applying for lodgings at the police station during the year, has been twelve hundred and fifty-two, being seven hundred and forty-five less than last year. The law passed by the last Legislature fully meets the demands for this class of vagabonds. They are also required to work a number of hours in the wood yard back of the police station for lodging and breakfast. The tramp nuisance is happily on the decrease as will appear from the above.

LICENSE LAW.

This part of the police business has been looked after by two officers specially detailed for this purpose, who are under the charge of Alderman Scripture, chairman on licenses. I cannot believe it to have been the intention of the Board of Aldermen when it passed the order for these officers to report to the chairman on licenses to construe its meaning so as to conflict with the authority of the Marshal. They, like all other members of the department, should be subject to the orders of the Marshal. The Marshal should be the judge as to who would be the most suitable officer for duty in this place or that.

During the year there were licensed two hundred and seventy places, for the sale of intoxicating liquors. There were sixty prosecutions under this law, fifteen licenses revoked. All cases where there was reasonable ground for belief that the law was violated, have been carefully investigated. The difficulty of enforcing this law is, that many people who would give information concerning the violation of any other law, refuse to do so in this. In concluding this branch of my report, I have simply to say, that I have not directed the entire labor and energy of the department to the enforcement of any one law to the exclusion of the others, but have tried to enforce all alike.

The present mode of issuing licenses for public entertainments should be changed; under the present

system the owner or manager may obtain of the city Clerk a license granting the power to bring before the public any performance or exhibition of any character, without consulting the police authorities who would be held responsible in case such exhibition should be immoral in effect, or in any way disorderly or improper. In other large cities all such licenses are obtained through the Police Department, thus giving the Marshal a knowledge of the number of exhibitions to be given, and an opportunity to make inquiries concerning their character, and so be enabled to judge as to the number of officers that would be required to preserve order. No person should be allowed to give a public entertainment of any character, where an admission fee is charged, or with profit or advantage to himself, without first having obtained a license therefor. A proper police force should be in attendance, to give the public assurance that they are provided with proper protection.

In concluding I feel gratified in being enabled to state that no serious disturbances or outbreaks have occurred in the city during the year and in no city with an equal population has there been less crime committed of a serious nature. Peace and good order have prevailed at all times.

During the year several of the members of the force have been before the Committee on Police for trial upon different charges of neglect of duty, and when found guilty, have had meted out to them such

punishment as their offence merited. It has been my intention and desire to enforce thorough discipline in the department as it is only by this means the force can be kept up to a standard of usefulness and efficiency. The members of the force (with few exceptions) have performed the duties assigned them in a commendable manner.

In submitting my annual report, I desire to express my thanks to his honor the Mayor, and also the other members of the City Government; to the heads of other departments of the city; to the Committee on Police; to his honor the Judge and Clerk of the Police Court, for valuable counsel and advice they have in all cases cheerfully given me in the discharge of my duties.

I desire to express my thanks to my assistant marshals, sergeants, day and night patrolmen, for the prompt and faithful manner in which they have performed their duties during the past year. I have been guided solely by the desire to subserve the best interests of the city at large, I have acted in strict accordance with the belief that that which best serves the department serves best our city.

I rejoice that at the close of my second year as Marshal or so near that close, my friends are able to feel that in strictly doing that which seemed for the best interest of the department I have to some extent promoted its discipline. I am glad to feel and

hope that the work of the department during the past year will meet the approval of your honorable body and of the citizens of Lowell.

Respectfully submitted,

ALBERT PINDER,

City Marshal.

ANNUAL REPORT
OF THE
CITY SOLICITOR
OF THE
CITY OF LOWELL,

FOR THE YEAR ENDING FEBRUARY 28, 1881.



LOWELL:
COURIER PRESS: MARDEN AND ROWELL.
1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 12, 1881.

Read and sent to the Common Council.

SAMUEL A. MCPHETRES, *City Clerk*.

IN COMMON COUNCIL, April 12, 1881.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

OFFICE OF THE CITY SOLICITOR,
LOWELL, Feb. 28, 1881.

To the City Council:—

GENTLEMEN: I have the honor to submit the following report of the business of this office for the year ending with this date.

At the beginning of my term of office there were pending the following actions, in which the City of Lowell was a party:—

Charles D. Saunders *vs.* City of Lowell.

John M. Pevey *vs.* City of Lowell.

Benjamin Dean et al. Trs. *vs.* City of Lowell.

A. J. Livingston et al. *vs.* City of Lowell.

Heirs of J. E. Hadley *vs.* City of Lowell.

Maria Stevens *vs.* City of Lowell.

William Manning *vs.* City of Lowell.

Samuel Fletcher *vs.* City of Lowell.

Pamelia Mercer *vs.* City of Lowell.

Benjamin Palmer *vs.* City of Lowell.

Catherine McGuane *vs.* City of Lowell.

Sarah J. Wilson *vs.* City of Lowell.

A. P. Quimby *vs.* City of Lowell.

Commonwealth *vs.* City of Lowell.

SAUNDERS vs. LOWELL.

This was a petition by Charles W. Saunders for the assessment of damages suffered by the construction of the Marginal Sewer "through the premises of the petitioner on Middlesex street." This sewer was built in 1878 and 1879 a distance of about a mile from "Middlesex street, near McIntire street," to Middlesex street, "through and under land of Stephen P. Sargent."

Besides the Saunders claim there were at the beginning of the year the claims of John M. Pevey, Smith Adams, Joseph P. Garland and Stephen P. Sargent. The last three claims were adjusted by your honorable body to the satisfaction of the claimants and advantageously to the city; and as no steps were taken toward the assessment of damages by juries, further particular mention of them would be inappropriate in this report. This group of claims, demanding attention during the same year and at the same time as the Chelmsford street cases, hereafter to be mentioned, have added greatly to the ordinary burdens of the office which I have the honor to hold. These two cases together might in possible contingencies be as serious in aggregate damages as ever threatened the city of Lowell in a single year. A jury was ordered by the County Commissioners to assess the damages in the Saunders matter on the 15th of November, 1879, and that jury was impanelled on the 5th of February, 1880, five days after I assumed the duties of this office. Further proceedings were then postponed, and there-

after from time to time, until June 9th. At that time it was thought best that certain questions in regard to the legality of the laying of the sewer should be settled before any assessment of damages should be made. If it should appear that proceedings preliminary to the construction of the sewer were not sufficiently in accordance with law to secure an easement in the lands alleged to be damaged and immunity from claims from subsequent owners, it would be imprudent to submit to assessment. Accordingly, Counsel for the city, as a matter of prudence and not to avoid the payment of just damages if any such were due, requested the sheriff who presided, to rule on the questions raised. It was thereupon ruled that no sewer had been shown to be legally laid, and the jury rendered a verdict for the city. To this ruling and verdict the petitioner excepted. The proceedings were reported to the Superior Court; the verdict was by that court accepted and the petitioner appealed to the Supreme Court, where the whole matter awaits a hearing and adjudication at the March term. During the pendency of these proceedings negotiations have been had tending to a reference of the claim to a board of arbitrators. If the whole matter could be disposed of in this way and proper releases be given by the present petitioner as well as the subsequent and present owner of the land alleged to be damaged, it would seem that the city could have no reasonable objection.

PEVEY vs. LOWELL.

As soon as the legal status of the sewer in question shall be established it will be well to attempt an equitable adjustment of this claim upon a basis similar to that that shall be adopted in the Saunders case.

THE CHELMSFORD STREET CLAIMS.

Dean et al. Trs. vs. City of Lowell; Livingston et al. vs. City of Lowell; Hadley Heirs vs. City of Lowell; Stevens vs. City of Lowell.

These are claims for damages sustained by the widening of Chelmsford street. The street was widened by a resolution of the City Council adopted in 1877. It was adopted against the advice of my learned predecessor in this office and after a written opinion was submitted by him, in which the effect of such action was with great clearness set forth.

Any history of these cases not extending back to the laying out of the street in 1827 would be unsatisfactory. An extended notice of them for this reason, and because they have not as yet been tried, is perhaps to be avoided in this report.

The petitioners in the first action have been heard by the Committee on Streets of the City Council for 1880, as well as by the Committee on Claims for 1881. Both committees investigated the claim with great care, but no satisfactory progress has been made toward an adjustment. A request by the latter committee that a minimum estimate of damage suffered should be submitted by the petitioners elicited a state-

ment of items of damage aggregating \$15,500, as only a fair compensation for the injury done to a single estate. Three of these claimants seek damages by an assessment by a sheriff's jury, as do the petitioners in the sewer claims. In *Livingston vs. Lowell* a jury is applied for in the Superior Court.

Nothing has been done toward an adjustment of any of the Chelmsford street claims, except in the first case as above mentioned.

WILLIAM MANNING vs. CITY OF LOWELL.

This is an action that was particularly described in the annual reports of my predecessor. It has required no attention during the past year. A rescript has come down from the Supreme Court ordering a new trial, and it will probably be disposed of at the next March term.

SAMUEL FLETCHER vs. CITY OF LOWELL.

This suit was brought to recover for paving stones sold to the city in 1874. By the field books of R. W. Baker, City Engineer at the time of the delivery of the stones, but since deceased, it appears that the plaintiff was not fully paid. It is claimed on behalf of the city that the evidence relied upon to show delivery of these stones is not legal evidence, and, for other reasons, that the plaintiff's claim ought not to be allowed. The Auditor, before whom a hearing was had, declined to pass on the questions of law raised, but computed the balance due on the evidence submitted, and the case goes into court for adjudication.

BENJAMIN PALMER vs. CITY OF LOWELL.

No trial of this case has been had during the year.

PAMELIA MERCER vs. CITY OF LOWELL.

The plaintiff was permanently injured by a fall on Appleton street. An attempt was made to settle without a trial, but the damages claimed were thought to be greater than a jury would award, and the result justified the conclusion—the jury fixing the compensation at \$450, which, though small, was the largest verdict obtained against the city during the year.

CATHERINE MCGUANE vs. CITY OF LOWELL.

The plaintiff in this case was injured by a fall on an accumulation of ice. A careful examination by surgeons in behalf of the city demonstrated beyond question that she was crippled for life, and could never walk except with the aid of crutches; and as the sidewalk was undoubtedly in a defective condition and no defence was open to the defendant on any ground, the case was adjusted advantageously and no trial was had.

SARAH J. WILSON vs. CITY OF LOWELL,

In which no defence could be made, was adjusted and no trial was had.

A. P. QUIMBY vs. CITY OF LOWELL.

This was an action brought to recover compensation for injuries to a horse and carriage. The defect

consisted of large stones left in the travelled part of the Mammoth road after an excavation for a trench for water pipe. The Committee on Streets for the year 1879 were summoned into court, and were obliged to admit the existence of the stones in the street, substantially as claimed by the plaintiff. The jury assessed the damages to the horse and carriage at \$167.

COMMONWEALTH *vs.* CITY OF LOWELL.

This was an indictment against the city for obstructions in Chelmsford street, and is described in the last annual report of my predecessor. After consultation with him and the District Attorney the whole matter was cheaply disposed of by payment by the city of the accumulated costs, \$9.53. To try the case, even if an acquittal was secured, would have cost many times as much.

Since the beginning of my term of office the following actions have been brought. In some of them the cause of action accrued also within the last year. Most of them, however, were suits for causes originating before.

Samuel Ells *vs.* City of Lowell.

Esther P. Simpson *vs.* City of Lowell.

Elizabeth Shaw *vs.* City of Lowell.

Catherine Shea *vs.* City of Lowell.

Nathaniel Allen *vs.* City of Lowell.

Louis N. Hevey *vs.* City of Lowell.

Mary A. Tully *vs.* City of Lowell.

Sarah Smith *vs.* City of Lowell.

Thomas Flynn *vs.* City of Lowell.

Margaret Reynolds *vs.* City of Lowell.

Christopher Mooney *vs.* City of Lowell.

City of Lowell *vs.* Inhabitants of Georgetown.

City of Lowell *vs.* Thomas Curley.

SAMUEL ELLS *vs.* CITY OF LOWELL.

The plaintiff claimed to be "permanently injured" by reason of an accumulation of snow and ice on Middlesex street. This case was tried at the last September term of the Superior Court and the jury returned a verdict for the city. The plaintiff moved for a new trial on the ground that the verdict was against the evidence and the weight of evidence; but after a careful hearing at Cambridge the motion was overruled and judgment was entered on the verdict.

ESTHER P. SIMPSON *vs.* CITY OF LOWELL.

This was an action brought to recover damages for severe injuries received by a fall on Sixth street in Centralville. It was claimed in behalf of the city that the notice, upon which the suit depended, of the time, place and cause of the injuries received was legally insufficient, and on motion the court so ruled, and a verdict was ordered for the city. The defendant excepted and the case went to the Supreme Court, where the exceptions were dismissed, so that the verdict stands as originally rendered.

ELIZABETH SHAW vs. CITY OF LOWELL.

In this case the city was prepared for trial at the last September term of the Superior Court, but the case was continued on account of the sickness of the plaintiff.

CATHERINE SHEA vs. CITY OF LOWELL.

This case was continued at the September term to abide the result in Simpson vs. City of Lowell, and the verdict will undoubtedly be ordered for the defendant.

NATHANIEL ALLEN vs. CITY OF LOWELL.

Was prepared for trial at the September term, but was continued and no trial has yet been had.

LOUIS N. HEVEY vs. CITY OF LOWELL.

In this case a small verdict of \$250 was returned for the plaintiff. This verdict was unsatisfactory to both plaintiff and defendant, and was accordingly set aside by mutual agreement of both parties, without the interposition of the court. This case will probably come up for trial at the next March term.

MARY A. TULLY vs. CITY OF LOWELL.

Plaintiff claims severe injuries to the right shoulder and arm, entirely disabling her from labor. The case will probably be tried at the March term. The injuries were received two years ago by a fall on an accumulation of ice.

SARAH SMITH vs. CITY OF LOWELL.

Plaintiff sustained severe injuries by falling into an excavation dug by an abutter on School street. The abutter was immediately notified of the suit and requested to come into court and defend, as he would undoubtedly be liable to the city for whatever damages the plaintiff should ultimately recover. The case will probably be tried at the March term.

FLYNN vs. CITY OF LOWELL.

This is a petition for assessment of damages by reason of the laying out and acceptance of Mead street, the resolution to that effect having been adopted by the City Council November 29, 1879, although as yet no work has been done upon the street.

REYNOLDS vs. CITY OF LOWELL.

This an action for damages for injuries received by stepping through a bulkhead on John street. The abutters have been notified and requested to defend the suit for the same reason as in Smith vs. Lowell.

CHRISTOPHER MOONEY vs. CITY OF LOWELL.

This was an action brought because of a defective sidewalk on High street. In this case also it was believed that the abutters would be liable, and they were accordingly notified, as in the previous case. The alleged defect consisted of bricks removed either for a

"sewer connection" or to secure staging erected for building purposes. After consultation with abutters the plaintiff abandoned the suit.

CITY OF LOWELL vs. GEORGETOWN.

This suit was brought in behalf of the city to recover against the town of Georgetown for the support of a pauper. The defendant had long disputed its responsibility for the support, and denied that he had a settlement in Georgetown. After suit brought, however, and much correspondence with the selectmen and several interviews with their chairman, the claim and costs were paid in full.

CITY OF LOWELL vs. THOMAS CURLEY.

This was a suit brought for cost of the support of the defendant's daughter at the Insane Asylum at Worcester. The judgment, including costs, amounted to \$313.44, which has been paid to the city.

The foregoing is a brief statement of the cases pending during the year in which the City of Lowell has been a party. It will be readily understood that an account of the cases in court can be but an imperfect statement of the labor performed by the City Solicitor. The ordinances particularly require a brief reference to pending suits, as they can with brevity be described.

The rapid increase of the city both in territory and population necessitates an increasing number of claims

for personal injuries. The past year they have been somewhat overshadowed in importance, if not in number, by land damage claims. But after the sewer and Chelmsford street matters shall have been disposed of, the staple of the Solicitor's court work as well as the staple of his reports will be upon suits arising from defective streets.

There has been, I believe, but one assessment of damages to land by a sheriff's jury against the City of Lowell for six years. In 1875 J. B. French recovered damages for the laying of about one hundred feet of sewer through his premises.

With the prospect that suits for personal injuries are likely to become more numerous rather than less so, every effort ought to be made to secure the city from imposition. In my opinion some suitable detective officer should be employed whose whole duty should be to investigate these claims for injuries resulting from defects. Under the present system no notice is received of very many accidents until it is too late to find truthful witnesses to the exact condition and character of the alleged defect. A well-trained officer, whose only duty was to watch for accidents, from which suits were likely to result, and to procure and preserve sufficient evidence, at the earliest possible moment, of all the circumstances attending such accidents, would save more than his salary to the city every year of his service.

Very respectfully,

GEO. F. LAWTON.

FIFTY-FIFTH

REPORT

OF THE

OVERSEERS OF THE POOR

OF THE

CITY OF LOWELL.

PUBLISHED BY ORDER OF THE BOARD.



LOWELL, MASS.:

STONE, BACHELLER & LIVINGSTON, PRINTERS, 18 JACKSON ST.

1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 12, 1881.

Read and sent down.

SAMUEL A. MCPHETRES, *Clerk.*

IN COMMON COUNCIL, April 12, 1881.

Received and read.

DAVID CHASE, *Clerk.*

REPORT.

TO THE CITY COUNCIL:

The Overseers of the Poor of the City of Lowell beg leave to submit herewith their Report for the year 1880:

The total amount of expenditure for the support and relief of the poor of Lowell for the year was \$48,352.95. In this amount are included the expenses of maintaining the institutions at the City Farm, the Almshouse, Workhouse, and Reform School, the support of insane persons—chargeable to the city at the various State Insane Hospitals—and Penal Institutions, and the relief extended to destitute persons in their own homes.

The Overseers have endeavored to counteract as far as possible the growing spirit of pauperism, the tendency to sink into abject indolence and to rely for the maintenance of a bare existence upon municipal charity. To this end, a wood-yard has been established in the rear of the Market House building, where poor men, destitute and out of work, may obtain temporary employment until they can better their condition. Since the establishment of the wood-yard, 319 tramps have been employed there, who have sawed about fifty cords of wood; reckoning the labor at \$1.00 per cord, each tramp has earned about fifteen cents, a sum more than sufficient to pay for the food and lodging furnished them,

and 821 days' labor has been furnished to men temporarily out of employment. One good effect has resulted from this arrangement. The impostors who have clamored for city charity, declaring themselves eager to work but unable to get work, have been weeded out from the crowd of applicants.

The sanitary condition of the institutions at the City Farm may be understood from the following table, showing the number of deaths which have occurred there, from January, 1860, to January, 1881.

CAUSES OF DEATH.

Consumption, - - - - 47	<i>Brought forward, - - - - 160</i>
Cancer, - - - - 6	Brain Fever, - - - - 4
Heart Disease, - - - - 12	Hemorrhage, - - - - 1
Croup, - - - - 2	Syphilis, - - - - 5
Tumor, - - - - 1	Strangulated Hernia, - - - 2
Typhoid Fever, - - - - 2	Scrofula, - - - - 11
Small Pox, 105 cases, - - - 19	Softening of Brain, - - - 2
Old Age, - - - - 19	Puerperal Fever, - - - - 1
Amputation, - - - - 1	Canker, - - - - 1
Diphtheria, - - - - 2	Dysentery, - - - - 2
Dropsy, - - - - 6	Unknown, - - - - 8
Spine Complaint, - - - - 2	Cholera Infantum, - - - - 1
Debility, - - - - 21	Convulsions, - - - - 3
Paralysis, - - - - 9	Pneumonia, - - - - 6
Stricture, - - - - 1	Chronic Diarrhœa, - - - - 1
Rheumatic Fever, - - - - 1	Child-birth, - - - - 1
Fits, - - - - 8	Apoplexy, - - - - 4
Liver Complaint, - - - - 2	
	<hr/>
<i>Carried forward, - - - - 160</i>	TOTAL, - - - - 213

From this table it appears that only 213 deaths, from all causes, have occurred in a term of twenty-one

years; and that 47 of these deaths were from consumption, while only one death is ascribed to typhoid fever.

These statistics speak well for the care and skill exercised by the superintendent and his assistants. In the year 1880 the number of children under five years admitted was 43, of which 6 died, 3 of convulsions, 2 of consumption, 1 of water on the brain.

The Free Dispensary, established in 1879, has been working very successfully. A corps of efficient physicians have volunteered their services to aid in carrying out the purposes of the institution. The Overseers, in conjunction with the Dispensary physicians, have made many improvements in securing the proper treatment of the sick poor of the city. A system has been recommended, and will probably be adopted, districting the city among six of these physicians, and limiting the services of the City Physician to the Almshouse and other institutions at the City Farm. For a particular account of this department, reference may be had to the report of the work of the Dispensary physicians hereto appended.

Large amounts are paid out annually by the city for the support of insane paupers at the State hospitals. By providing larger and better accommodations at the City Farm, for the harmless and incurable insane, these large expenditures may be greatly reduced. The Overseers are persuaded that an insane hospital, with all proper appointments, should be established by the City of Lowell, which might not only accommodate the insane poor, but even patients whose means enable them to

maintain themselves—in whole or in part. An expenditure of \$15,000 or \$20,000 would be required for this object.

The buildings, most of them, are old and ill-contrived, and should be re-modelled or re-placed at an early day. Gas and steam ought to be introduced into the institutions as soon as practicable at a reasonable expense.

The Overseers have made arrangements to purchase a lot of land containing about four and one-half acres, belonging to the Coburn farm, on the southerly side of the avenue leading to the institutions. The price paid is \$600 per acre, and it is believed that the purchase is one very advantageous to the city.

The Reform School maintains its high reputation as a place of instruction and reformation. Mr. and Mrs. Lang are unremitting in their efforts, and have achieved a signal success in their department.

The Overseers have several projects in view, in relation to the administration of the charities of the city, including the providing of fit homes in private families for very young children; the erection of an insane hospital referred to above; and the more complete separation of the poor children in the Reform School from the children sentenced there for crimes and misdemeanors.

For a more detailed statement of the condition of the several departments at the City Farm, the Overseers beg to refer to the reports of the superintendent and other officials hereto appended.

SECRETARY'S REPORT.

OFFICE OF OVERSEERS OF THE POOR, }
LOWELL, January 1, 1881. }

To the Board of Overseers of the Poor :

GENTLEMEN — In submitting the annual report from this office, it will be noticed that the number of families aided in 1880 were less than in 1879.

The law of 1879 giving a woman a settlement by a continuous residence of five years after the age of twenty-one years, whether single or married, and without regard to a husband who has no settlement within the state, has thrown cases on to the city that have been state cases for years. These cases are mainly in the lunatic hospitals.

The expense for the year is some less than in 1879.

Seven hundred and twenty-six families were aided, including five hundred and fifty-seven families that have settlements in the city, one hundred and seventeen having no settlement within the state, and fifty-two having acknowledged settlements in other cities and towns, amounting to a total of two thousand seven hundred and fifty-six persons aided.

The expense to the city for 1880 was \$9,519.83; the expense to the state was \$1,011.78, and the expense to other cities and towns was \$1,533.01.

There have been six hundred and forty-three families visited at their homes, and I find it necessary to investigate all applications for aid as far as possible.

The interest of the city has been looked after at all times as well as that of the poor.

Persons sent to the State Almshouse,	116
Permits for burial of paupers,	118
Persons committed to the State Lunatic Hospitals, .	18
Persons committed to House of Correction, . . .	155
Official notices and letters received,	393
Official notices and letters mailed,	421
Orders given on City Physician,	652

Gentlemen—Feeling that I have done my duty faithfully and promptly at all times, I wish to thank you, one and all for your kindness toward me, since being connected with you in this office.

LEONARD F. JEWELL,

Secretary.

SUPERINTENDENT'S REPORT.

Office of the SUPERINTENDENT OF INSTITUTIONS AT CITY FARM, }
LOWELL, December 31, 1880. }

To the Board of Overseers of the Poor, City of Lowell:

GENTLEMEN — In acceptance of the requirements of your rules and an ordinance of the City Council, I do most respectfully submit to you for your consideration my nineteenth annual report, at the close of my twenty-first consecutive year in service to your Board as Superintendent of Institutions at City Farm, in which I have endeavored to show to you the exact condition of the farm, buildings, and the unfortunate class of people cared for here under my charge, the cost of their support and the productions of their labor in the working and carrying on of the farm in connection with the institutions, all of which I hope you will deem worthy of notice.

THE FARM.

During the past season there has been a large amount of labor done on the farm to keep it in good condition. This farm, as is well known by all that are conversant with agriculture, is an extremely difficult one to be always sure of raising large amounts of pro-

duce on each year, its characteristics being either too dry or too wet, according to the season; and the difficulty therein lies in placing the crops in the spring where they will be sure to show the best results in the fall. The season just closed has been an exceedingly dry one, but the whole aggregate of the various crops harvested shows a very handsome increase over the season previous. Nearly all the crops did finely, with the exception of the potatoes, which owing to the drought yielded only about one-third of the crop desired, and the strawberries were almost a total failure, and the new bed of this delicious berry prepared for the next season to come was completely destroyed by the drought. The onion crop did remarkably well considering the failure of this vegetable in most sections. There were five hundred and fifty bushels harvested from two acres of land, at a market value of about seven hundred dollars (\$700.00). The hay crop yielded abundantly, there being some over ninety tons of the different kinds of it harvested, at a market value of about eighteen hundred dollars (\$1800.00).

The apple crop was also abundant, some over five hundred barrels of all kinds were harvested, but owing to the great abundance of this fruit in the market, the price obtained for what was sold was small. Nearly all the other small fruits and vegetables yielded finely.

The market value of all the various kinds of produce harvested during the year was five thousand nine hundred dollars and eighty-four cents, and the estimated value of that consumed in the family before harvest time

was five hundred dollars, making the aggregate sum of all the produce raised to be six thousand four hundred dollars and eighty-four cents (\$6,400.84).

The amount received from the sales of produce was three thousand and forty-two dollars and sixteen cents (\$3,042.16).

BUILDINGS.

The buildings are the same as at the time of my last report, the usual amount of repairs having been done during the year to keep them in as good condition as possible, though there needs to be a great change made in some of them to make everything in and about them as comfortable and in as good as sanitary condition as is now demanded in such institutions as these. The most of them were constructed many years since and have not conveniences for comfort or the proper classification of the inmates. The main building is three stories in height, the rooms are very low-studded, and when many of the inmates are gathered together in one room, as they are at stated times, the difficulty of obtaining and maintaining a proper ventilation is soon observed; another difficulty is that the washroom and laundry are placed in the first story, and the odors arising from these rooms when they are in use (and owing to our large and constantly increasing family they are most always in constant use), permeates nearly throughout the whole building, and I should recommend that some provision should be made for their removal

altogether from this building to a building to be prepared for them.

In the building used as a hospital there needs to be a large amount of repairs done soon. There should be new floors laid throughout the building, the plastering removed from the ceilings and replaced with new, and the wood work all re-painted; and here, in connection with this, I would say that if there should be a new asylum built for the accommodation of the insane, as recommended by his Honor the Mayor, in his inaugural, that in a measure this expense might be saved; for in the case of the erection of the asylum this building would in all probability have to be removed or demolished to furnish a site for the asylum; as the building is at the present time it is in rather a dilapidated condition for the comfort of the sick as well as for those that are not.

Once more I should like to call your attention to the great want of a better and safer method of warming and lighting the buildings. It is one of the "seven wonders" that this place has so long escaped from one of those serious conflagrations that have visited so many places of this kind throughout the country. Here the only means we have for warming the buildings are four furnaces and a large number of stoves set up in all parts of the institutions and used at their utmost capacity to obtain a proper degree of temperature for the comfort of the inmates during the winter; and for lighting we use kerosene oil, a dangerous and explosive material, under certain circumstances. Under all these circum-

stances we are obliged, during the night as well as daytime, to exercise unusual care to prevent any serious consequences to arise from some of these dangers. I think that all this danger might be obviated by the introduction of steam for heating and gas for lighting the buildings, and I think also that after the first cost of introduction it would not be of any greater expense to warm and light the buildings than we now have to undergo.

The cost of the general repairs to all the buildings for the year was nine hundred and ninety-six dollars and fourteen cents (\$996.14).

During the year there has been a covered walk or shed built in the womans' yard, leading from the main building to the water-closets, to protect them from the storms and the hot rays of the sun in the summer time, and during the past summer it was enjoyed very much by them, especially the insane women, who would spend the most of the day seated under it, receiving the full benefit of being in the open air, when otherwise they would have remained in the house. The expense of the construction of it was two hundred and seventy-five dollars (\$275.00).

Also during the year there has been a number more of the old wooden bedsteads replaced with iron ones, and other furniture bought which was needed, at an expense of five hundred and sixty-three dollars and eleven cents (\$563.11).

FARMING TOOLS, ETC.

The farming tools have all been kept in good repair and new ones bought to replace old and useless ones. There will probably have to be new machines purchased the coming season for haying purposes. The carts are all in good repair and the same in number as at the time of my last report. There has been one of the express wagons turned over to the Board of Health for their use, and a new covered wagon has been purchased for the conveying of persons to the institutions, at an expense of one hundred and twenty-five dollars (\$125.00).

The amount of stock on hand January 1, 1880, was six horses, six cows and fourteen shoats. During the year there have been purchased six cows and fourteen shoats, twenty pigs raised, and fourteen fat hogs killed, whose aggregate weight was four thousand eight hundred and eighty-seven pounds, four cows killed, and one cow died; leaving the number on hand, December 31, 1880, to be six horses, seven cows, and thirty-four shoats.

I think that sometime during the coming year there will need to be a change made in our horses; two or three of them are getting to be quite old and unfit to perform the labor that is required of them.

HELP.

The same number of persons are employed on and about the institutions as at the time of my last report,

no change whatever having been made, and they have one and all given good satisfaction in their prompt attention to their duties.

SMALL-POX HOSPITAL.

This hospital was opened again last May for the reception of patients infected with this loathsome disease. Two patients were received, a child and its mother; the mother recovered and the child died. Afterwards the building and its contents were placed in good condition and is ready at a moment's notice when occasion demands it.

ALMSHOUSE STATISTICS.

The number of inmates in the Almshouse January 1, 1880, was one hundred and eighty-eight—sixty-six males and seventy-one females; the number admitted during the year was two hundred and one—one hundred and eight males and ninety-three females; making the whole number for the year to be three hundred and thirty-eight—one hundred and seventy-four males and one hundred and sixty-four females. Of this number there were discharged one hundred and eighty-seven—one hundred and one males and eighty-six females; leaving the number of inmates remaining December 31, 1880, to be one hundred and fifty-one—seventy-three males and seventy-eight females. The average number supported for the year was one hundred and thirty-one. There have been four births in the Almshouse during the year.

The number of insane in the Almshouse January 1, 1880, was forty-six—fifteen males and thirty-one females; there were admitted during the year, thirty-two—sixteen males and sixteen females; making the number to be seventy-eight—thirty one males and forty-one females. Of this number there were discharged twenty-nine—fifteen males and fourteen females; leaving the number remaining December 31, 1880, to be forty-nine—sixteen males and thirty-three females. The number of deaths amongst the insane were five—two males and three females. The above statistics are also included in those of the Almshouse.

The nativity of those admitted during the year was as follows: One hundred and nineteen born in America, sixty-eight in Ireland, five in England, two each in Scotland and Nova Scotia, four in Canada, and one in Newfoundland.

The ages of those admitted were as follows: Four births; under one year of age, ten; from one to five, twenty-three; from five to ten, thirty-one; from ten to twenty, sixteen; from twenty to thirty, twenty-eight; from thirty to forty, twenty-five; from forty to fifty, twenty-five; from fifty to sixty, eighteen; from sixty to seventy, eight; from seventy to eighty, eleven; from eighty to ninety, two. The average age of those admitted was twenty-nine years. The oldest person admitted was eighty-four years of age, the youngest one was two and one-half days.

Of the number of inmates discharged during the year, twenty-one died, eight males and thirteen females,

of the following diseases, child-birth, one ; consumption, six ; convulsions, two ; cancer, one ; epilepsy, one ; heart disease, four ; old age, two ; softening of the brain, three ; syphilis, one.

The number of deaths in the Almshouse is the whole number also for all the institutions connected, the number being twenty-one, and the whole number of inmates for the year in the various institutions being five hundred and five, may to some seem a large proportion to the whole number of inmates ; but here, in connection with this, I would say that not one of those that died contracted the disease that they died of here in the Almshouse. During the month of December the measles were brought into the Almshouse by a child that was admitted, and the disease had quite a run among the small children ; but, fortunately there were no fatal cases. Otherwise than this the general health of the inmates has been very good. All the deaths occurred in the hospital, the most of them being patients brought there in the very last stages of disease, some of them living but two or three days after their arrival, and the others were expected to drop away at any moment when they came, as in the case of one old lady who died here during the year, at the ripe old age of one hundred years. She was admitted to the Almshouse six years ago, when she was ninety-four years old and completely broken down with old age ; and therefore I think, taking the legitimate population of the Almshouse and institutions connected into consideration, not only for the past year but for a number of years previous, it is shown

that the general health of the institutions is as good, if not better, than the same number in or under any other situation wherever placed.

I would here, in connection with this subject, extend my heartfelt thanks to Dr. E. W. Trueworthy, for his promptness and efficiency in relieving the distress of the most unfortunate class of inmates under my charge.

WORKHOUSE STATISTICS.

This institution, in connection with the Almshouse, still continues to receive inmates sentenced to it by the Municipal Court for minor offences. The most of them being able-bodied men and women, the city derives some benefit from their labor, as well as paying for their support when sentenced, whereas if they were sentenced to the House of Correction they would lose it and be at a full cost of support.

The number of inmates January 1, 1880, was ten—three males and seven females; the number admitted was fifty-one—twelve males and thirty-nine females; the whole number for the year was sixty-one—fifteen males and forty-six females; of this number there were discharged forty-eight—thirteen males and thirty-five females; leaving the number remaining, December 31, 1880, to be thirteen—two males and eleven females. The average number of inmates supported for the year, eleven; the number pardoned during the year, five.

The commitments for the year were as follows: three males and eighteen females for drunkenness; one

male and three females for drunkenness, second offence ; six males and thirteen females for being common drunkards ; one male and one female for vagrancy ; one male and one female for wilful trespass ; two females for larceny ; one female for assault and battery.

Two were committed for ten days each, sixteen for thirty days, four for forty days, ten for three months, three for four months and sixteen for six months. The longest sentence was six months and the shortest ten days. Average sentence of those committed was three months and five days, and the average sentence served of those discharged was two months and twenty-one days.

There was one committed between the ages of sixteen and twenty, sixteen between thirty and forty, sixteen between twenty and thirty, thirteen between forty and fifty, five between fifty and sixty. The youngest person committed was sixteen years of age ; the oldest one fifty-four. The average age of those committed was thirty-six years.

Of those committed fourteen were born in America, thirty-five in Ireland, one each in England and Canada.

Since the establishment of the institution there have been seven hundred and two commitments.

HOUSE OF REFORMATION FOR JUVENILE OFFENDERS.

This institution, in connection with the Almshouse, so far as the general support and management of it is concerned (though the Board of School Committee of the city have the direction of the studies taught in the

school only) still continues to maintain its reputation of the past, as being one of the model institutions of its kind in the country.

Mr. William A. Lang still continues as teacher and chaplain, positions in which he seems to be "the right man in the right place." The school is conducted on good moral and physical culture, as well as the intellectual; and no pains are spared to afford every pupil all the benefit he can reap while he is an inmate of the institution.

The same arrangements continue to exist between the city of Lowell and the several cities and towns which send their truants to this institution that did at the time of my last report.

The employment of the inmates of the institution has been the same as the year previous, viz: chair-bottoming and garden work out of school hours.

For other particulars in regard to the institution, such as studies taught, punishments and the method used in the governing of the school, please see the teacher's report, accompanying this.

STATISTICS.

The number of inmates January 1, 1880, was forty-two — thirty-five males from Lowell, four from Chelsea and one each from Stoneham, Somerville and Woburn.

There were admitted during the year, sixty-four — forty-two males and four females from Lowell, eight males from Chelsea, four from Somerville, two each from

Waltham and Malden and one each from Arlington and Woburn, making the whole number for the year to be one hundred and six. Of this number there were sixty-four discharged during the year — forty-eight males and two females from Lowell, seven males from Chelsea, three from Somerville and one each from Stoneham, Arlington, Malden and Woburn, leaving the number remaining December 31, 1880, to be forty-two — twenty-nine males and two females from Lowell, five males from Chelsea, two each from Somerville and Waltham and one each from Woburn and Malden.

Of the number discharged from the institution during the year there were fourteen pardoned — seven from Lowell, three from Chelsea, two from Somerville and one each from Arlington and Stoneham.

The average number supported for the year was thirty-nine. The whole number of commitments to the institution since its establishment has been fourteen hundred and twenty-six.

The commitments to the institution were as follows: nine for larceny, one each for wilful trespass, truancy, stubbornness and taking and driving team illegally, twenty-five for wandering about the streets and twenty-six for being habitual truants.

The ages of those committed were as follows: four were eight years old, one was nine, eleven were ten, thirteen were eleven, six were twelve, thirteen were thirteen, eight were fourteen, seven were fifteen and one was sixteen. The average age of those admitted was eleven years and seven months.

The average sentence of those committed was one year and one month. The average sentence served of those discharged was nine months and fifteen days. The longest sentence was two years, and the shortest three months.

Of those committed one was born in England, three in Canada, one in Prince Edwards Island, three in Ireland and fifty-six in America.

Religious services are held in the chapel every Sabbath afternoon; services conducted by the chaplain, and occasionally mass is held by some of the Catholic priests in the city, and all that desire can attend one or the other of these services.

EXPENDITURES.

The average number of inmates supported in the Almshouse being one hundred and thirty-one, in the Workhouse eleven and the House of Employment for Juvenile Offenders thirty-nine, makes the whole average number in all the institutions one hundred and eighty-one. The average number of inmates in the institutions whose board was paid was fifteen, which leaves the actual average number supported at an expense to the city to be one hundred and sixty-six.

The amount of bills paid for all expenses at the institutions at the City Farm was twenty thousand two hundred and forty-seven dollars and eleven cents (\$20,247.11). From this amount I deduct the following items: four thousand eight hundred and sixty-three

dollars (\$4,863.00), for two thousand four hundred and twelve provision orders, delivered as per orders of the Secretary of the Overseers of the Poor; one hundred and one dollars and eighty cents (\$101.80), for paper-bags, baskets, &c., used in delivering the same; five hundred and eighty dollars (\$580.00), the cost of delivering the same; three hundred and one dollars (\$301.00), for forty-three cords of wood, furnished the outside department; three thousand and forty-two dollars and sixteen cents (\$3,042.16), the amount received from the sales of produce from the farm; one thousand nine hundred and twenty-eight dollars and twelve cents (\$1,928.12), the amount received for board of persons in the institutions, which leaves the actual cost of the support of the city's own poor to be nine thousand four hundred and thirty-one dollars and three cents (\$9,431.03), or at a yearly cost for each one supported of fifty-six dollars eighty-one cents and four mills (\$56.814), or a weekly cost of one dollar nine cents and three mills (\$1.093).

This amount includes the cost of all repairs done during the year, both general and extra, and the salaries of the officers employed in and about the various institutions, and the cost of furnishing food and lodging to two hundred and twenty-eight tramps, that were put up during the year.

CONCLUSION.

In the conclusion of this report, gentlemen, I would here remark that this draws to a close twenty-one years service of myself to the Board of Overseers of the Poor

of the City of Lowell as Superintendent of the Institutions at City Farm; and I find in making a research of the books of the institutions that there have been three thousand seven hundred and eighty-six individuals here under my charge; and it gives me great pleasure to state here that I have always received from each and every member of the different Boards I have served under, the greatest kindness in furnishing me all that was necessary for the comfort and support of this large number; and, gentlemen, I would here extend you all individually my heart-felt thanks for the liberality and generosity you have shown in providing for the wants and comfort of this unfortunate class of people during the past year.

Most respectfully submitted,

LORENZO PHELPS,

Superintendent of Institutions at City Farm.

SCHEDULE OF PERSONAL PROPERTY

Under the charge of Lorenzo Phelps, Superintendent of Institutions at City Farm, December 31, 1880.

1 black horse, \$25 ; 1 roan horse, \$150.....	\$175 00
1 pair matched horses, \$150 ; 1 pair matched horses, \$150.....	300 00
8 cows, \$400 ; 33 shoats, \$363	763 00
40 fowls, \$20 ; 1 carryall, \$70.....	90 00
1 beach wagon, \$125 ; 1 double sleigh, \$65	190 00
1 traverse-runner sleigh, \$65 ; 1 market wagon, \$60	125 00
1 express wagon, \$50 ; 1 two-horse wagon, \$100	150 00
1 two-horse wagon, \$75 ; 1 one-horse wagon, \$40.....	115 00
1 two-horse dump cart, \$50 ; 2 two-horse dump carts, \$200.....	250 00
1 night soil cart, \$25 ; 1 single sled, \$10.....	35 00
2 traverse-runner sleds, \$100 ; 1 sled, \$5.....	105 00
2 carriage harnesses, \$50 ; 2 light harnesses, \$25.....	75 00
2 pair double harnesses, \$16 ; 1 cart harness, \$5	21 00
A lot of old harnesses, \$5 ; robes, blankets, &c., \$30.....	35 00
3 sets of side-boards, \$25 ; 1 hand sled, \$1	26 00
12 wheelbarrows, \$24 ; a lot of chestnut posts, \$30.....	54 00
5 ladders, \$10 ; 1 Farmer boiler, \$30 ; a lot of wood, &c., \$12...	52 00
1 hay cutter, \$5 ; a lot of hot-bed sash, \$100.....	105 00
36 coffins, \$72 ; 1 set of falls, ropes, &c., \$25.....	97 00
A lot of miscellaneous articles.....	70 00
15 tons English hay, first quality.....	360 00
12 tons English hay, second quality	216 00
5 tons meadow hay, \$60 ; 1½ tons oat straw, \$30	90 00
41 bushels oats, \$20.50 ; a lot of grain, \$30.....	50 50
62 casks, \$62 ; 1000 gallons vinegar, \$150.....	212 00
1550 gallons cider, \$93 ; 382 bushels sugar beets, \$95.50	188 50
48 bushels blood beets, \$24 ; 200 bushels turnips, \$50.....	74 00

Carried forward..... \$4,024 00

<i>Brought forward</i>	\$4,024 00
$\frac{1}{2}$ ton carrots, \$10; 300 bushels potatoes, \$210.....	220 00
6 plows, \$60; 2 cultivators, \$20; 3 harrows, \$21.....	101 00
2 ladders, \$3; 2 jacks, \$3; winnowing mill, \$5.....	11 00
20 chains, \$17; 12 shovels, \$9; 6 dung forks, \$9.....	35 00
12 hoes, \$5; 4 rakes, \$2; 5 picks, \$5.....	12 00
5 iron bars, \$10; 16 rakes, \$2; 18 hay forks, \$13.50.....	25 50
2 stone hammers, \$3; 5 wrenches, \$5; 6 sickles, \$1.50.....	9 50
4 ropes, \$2; 12 trowels, \$3; 4 saw horses, \$1.....	6 00
5 axes, \$1.25; 2 sets whiffle trees, \$10; 2 mowing machines, \$25	36 25
1 hay knife, \$1; a lot of squash, etc., \$15.....	16 00
1 hand engine, hose, buckets, etc.....	121 00
Stock of provisions, etc., in store room.....	1,908 20
Stock and tools, in blacksmith shop.....	100 00
Stock and fixtures, in plant room.	74 00
Stock and tools, in shoe shop.....	69 00
Stock, tools, etc., in paint shop.....	156 00
Stock, tools, etc., in carpenter shop.....	171 00
75 tons of coal, \$450; 55 cords of wood, \$385.....	835 00
Furniture, bedding, crockery, etc., in pest-house	300 00
Furniture, bedding, clothing, crockery, etc., in Almshouse....	6,408 37
	<hr/>
	\$14,638 82
	<hr/>

REPORT OF TEACHER AND CHAPLAIN.

*Gentlemen of the Board of Directors of the House of
Employment and Reformation for Juvenile Offend-
ers in the City of Lowell:*

It is with profound thanks to Almighty God for his kind Providence that has brought us safely through another year and has crowned our efforts with reasonable success; and with respect to your honorable Board, I render my fifth annual report.

The school is classified as follows:

Opening exercises — Reading of Scripture and our Lord's Prayer.

IN ARITHMETIC.

Bradbury's Eaton's Practical Arithmetic, first class	.	4
“ “ “ “ second class		3
Colburn's Intellectual Arithmetic, first class	. .	6
“ “ “ second class	. .	5
“ “ “ third class	. .	9
“ “ “ fourth class	. .	13
Walton's Primary Arithmetic, two classes	. .	15

IN GEOGRAPHY.

Guyot's New Intermediate, Mass. Edition, first class .	6
“ “ “ “ “ sec'd class	5
“ Elementary, Primary classes . . .	14

IN SPELLING.

Worcester's New Pronouncing Spelling Book, first class	6
“ “ “ “ “ sec'd class	13
Hillard's Third Reader, spelling and defining \ .	10
Franklin “ “ “ “ “ .	10
“ Second “ “ “ “ . .	8
“ Primer	9

IN HISTORY.

Anderson's History of the United States, first class .	2
“ “ “ “ “ second class	4
“ “ “ “ “ third class .	5

IN READING.

Franklin Fifth Reader	6
“ Fourth “	6
“ Third “	10
“ Second “	9
“ Primer, first class	3
“ “ second class	6
Hillard's Third Reader	10
“ Intermediate Reader	5

IN WRITING.

Dunton's No. 6	.	.	.	.	.	.	.	2
" " 4	.	.	.	.	.	.	.	4
" " 3	.	.	.	.	.	.	.	3
" " 2	.	.	.	.	.	.	.	6
" " 1	.	.	.	.	.	.	.	10

Have taught to write their name on slate . . .	14
Number in School January 1, 1880	65
Boys committed during year 1880 . . .	58
Pupils discharged during year 1880. . . .	62
Number attending school at the present time .	60
Average monthly attendance for the year . .	58
The number instructed during the year . .	146

Pupils in the school under sentence, thirty-nine — thirty-seven males and two females.

Pupils in the school not under sentence, twenty-one — thirteen males and eight females.

Were committed for the following offences:

Larceny	14
Vagrants	8
Homeless	1
Malicious Mischief	1
Truancy	34
Whole number cell punishments inflicted	5
Quarrelling 3, in cell 24 hours each	
“ 1, “ 48 “	
Absconding 1, “ 72 “	

Is there anything of interest I can say in this report I have not said in reports of other years? It is the same routine of duties day by day and year by year.

In this, as in years passed, I have, with the approval of the Superintendent of Schools and my committee, labored to instruct my pupils in those branches we believed for their best advantage in their sphere of life.

I claim that no man lives who loves his work more than I love mine. I believe with all my heart, mind and strength that our juvenile offenders of both sexes can not only be benefited but a majority of them saved; yes, gloriously saved, if brought under the influence of warm, tender, sympathizing hearts. I mean hearts so big that they can hold fifty or a thousand wayward boys or girls, and so enter into sympathy with them and for them, that they shall be convinced of an earnest desire on our part for their best interests in this life and eternal interests in the life to come.

We shall do well to remember that our blessed Saviour came not into the world to save the righteous but the sinner.

I contend that no juvenile offender, male or female, can ever be reached and saved but by personal contact. Let our government over them be as firm as the granite hills of New Hampshire; but let our hearts be as full of love as was the heart of our blessed Lord when he walked and talked with men. Then, and not till then, can we hope to find the key that shall assist us to a solution of the knotty problem "What shall be done with our juvenile offenders?"

I have for years believed that punishment was not reformatory in its office and only held the individual in subjection for the time being.

I started out in 1880 with the determination that I would not inflict a single punishment on any of my pupils if kind words and loving sympathy would reach each heart, and bring that sweet union of feeling between teacher and scholar so essential to our greatest success in the school-room.

The cell punishments that have been inflicted were upon those vicious boys who manifest a perfect contempt for kind and gentle government and can be held in subjection in no other way. It will be seen by reference to the list of punishments that they are fewer than in any previous year.

Our acknowledgments are due and are hereby extended to Hon. W. A. Russell, M. C., for a work on Diseases of Swine and other Domestic Animals.

We also extend our thanks to Charles Cowley, Esq., for two volumes, viz: Reminiscences of J. C. Ayer and Leaves from a Lawyer's Life, Afloat and Ashore.

Will His Honor the Mayor accept the "best bow" of both teacher and pupils for his many kind words as well as for things more substantial.

With heartfelt thanks to my School Committee for their uniform kindness, and to the Board of Overseers for the many assurances of their confidence,

I remain yours very truly,

WILLIAM A. LANG,

Teacher and Chaplain.

DISPENSARY REPORT.

FREE DISPENSARY ROOMS, }
LOWELL, February, 1881. }

To the Overseers of the Poor :

GENTLEMEN — The Board of Physicians of the Free Dispensary would present to you the following report :

The Board met on the first Monday of February, 1880, for the purpose of organization, which was perfected by the following choice of officers :

Chairman, Dr. Allen ; Vice Chairman, Dr. Smith ; Secretary, Dr. Huntress ; Executive Committee, Drs. Allen (*ex-officio*), Fox, Hoar, Leighton and Pinkham.

During the past year the Dispensary Clerk has put up 3,585 prescriptions, of which 1,728 were ordered by the City Physician, and 1,857 by our Board and other physicians, all of the latter being countersigned by members of our Board.

The whole number of patients who have received medical attention at the Dispensary for the year 1880 is 1,034 ; of these the diagnosis has been recorded in 930 cases. The most frequently occurring diseases will be found in the following list :

LIST OF PROMINENT DISEASES TREATED AT DISPENSARY, YEAR
ENDING DECEMBER 31, 1880.

Name of Disease.	Number of Cases.
Anæmia	16
Bronchitis.	88
Conjunctivitis	5
Constipation	11
Debility.	16
Diarrhœa	5
Dyspepsia	16
Eczema	6
Heart, Disease of.	12
Indigestion	12
Injury	40
Neuralgia	16
Pertussis	12
Phthisis	30
Pleurisy.	18
Rheumatism	55
Scrofula	32
Syphilis	16
Teeth, Extraction of	6
Uterus, Disease of	9
Varicose Ulcer	17

A change was made by your honorable Board during the year past, requiring every applicant for Dispensary aid to procure a certificate from your secretary. This was brought about, perhaps, from some suggestion in our report of last year, in which we recommended that some restriction should be placed upon applicants and that it should not be left with the attending physicians to decide who were deserving of assistance from the Dispensary.

We would suggest that in our opinion too stringent a restriction has been placed upon the applicants by the

present rule, and would respectfully call your attention again to the following resolutions, which were adopted by our Board on the first Monday of April last and presented to your honorable Board for consideration.

Resolved, That no patient be admitted to the Lowell Free Dispensary without a certificate from the Secretary of the Overseers of the Poor, or from a practising physician, or a clergyman, or a local missionary of this city—such certificate to be given only after a satisfactory examination into the circumstances of the patient.

Resolved, That the Executive Committee be instructed to have printed a suitable number of certificates, and to see that they are kept constantly on hand at the office of the City Messenger, in the City Government building, for the use of the Secretary of the Overseers of the Poor, clergymen, practising physicians and missionaries of this city.

Resolved, That the secretary be instructed to notify the physicians, clergymen and missionaries of this city of the passage of these resolutions by a notice inserted in two (2) daily papers of Lowell for the space of two (2) weeks.

We would respectfully call your attention again to the suggestion made in our report of last year that the City Physician be restricted in his official work to the care of the Almshouse and the Station House and to his duties as a member of the Board of Health, and that the treatment of the outside sick poor be intrusted to six physicians, one being assigned to each ward in the city.

This of course could not be carried out at a less expense than the present system incurs; that we do not claim. The advantage of the change would well repay a slight increase of expense. It is apparent to anyone that when a city has reached a certain size, one

physician cannot attend to all the sick poor. Such a thing would be impossible—for instance in a city of the size of Boston. And it is our opinion that Lowell already has such a population that it would be impossible for one physician to attend to all the sick poor in this city, unless indeed he received such a compensation that he could afford to give his whole time to his official duties. But if the work could be distributed among six physicians, each one could at a nominal salary attend to his share of the labors and attend to it well.

Our Board would extend their thanks to the Dispensary Committee of your honorable Board—Messrs. Cushing, Keyes and Kingsley—for their uniform courtesy and kindness in attending to the wants and suggestions of the Board.

Respectfully submitted,

LEONARD HUNTRESS, JR.,

Secretary

ANNUAL REPORT
OF THE
SUPERINTENDENT OF STREETS
OF THE
CITY OF LOWELL
FOR THE YEAR 1880.



LOWELL.:
COURIER PRESS: MARDEN AND ROWELL.
1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Jan. 25, 1881.

Read, and sent to the Common Council.

SAMUEL A. McPHETRES, *City Clerk.*

IN COMMON COUNCIL, Jan. 25, 1881.

Received and read.

DAVID CHASE, *Clerk.*

REPORT.

To the Honorable City Council:—

GENTLEMEN: The following Report, containing a general statement of the expenditures of the Street Department, Streets laid out and accepted, etc., during the year 1880, is respectfully submitted.

Balance undrawn January 1, 1880	\$111 67
Appropriated in 1880	70,000 00
Transferred from other accounts	1,000 00
Received from sundry persons	24,540 23
Total	<u>\$95,651 90</u>
* Total expenditure for the year	<u>93,959 47</u>
Balance January 1, 1881	<u><u>\$1,692 43</u></u>
* From this deduct: Amount received for sidewalks, fuel, labor, material, etc.,	\$24,540 23
Amount paid for land taken for laying out and widening streets	174 75
	<u>\$24,714 98</u>
Making the expenditures for ordinary street purposes	<u><u>\$69,244 49</u></u>

STREETS

LAID OUT AND ACCEPTED IN 1880.

STREETS.	BETWEEN WHAT STREETS.
Aiken.	Hall and Cheever.
Beacon.	Tenth and Methuen.
Barclay.	From Liberty, northeasterly.
Cheever.	Cabot and Tucker.
Coolidge.	Hall and Cheever.
Congress.	Thorndike and Robinson.
Columbus Avenue.	Wilder and Walker.
Chambers.	Gorham and Orange.
Canada.	Main and Tanner.
Eleventh.	Methuen and Beacon.
Everett.	Fayette and High.
First.	From Simpson, easterly.
Fremont.	From Sixth, northerly.
Hall.	Cabot and Tucker.
Marginal.	Wilder and Porter.
Mount Hope.	Fourth Avenue and Riverside.
Porter.	Marginal and Middlesex.
Robinson.	Congress and Boston & Lowell Railroad.
Shaw.	Smith and Chelmsford.
Second Avenue.	From Mammoth, 700 feet easterly.
Tucker.	Hall and Cheever.

PAVING.

The following shows the amount of paving laid during the year, all of small granite blocks, some of which were broken from old stone.

STREETS.	BETWEEN WHAT STREETS.	Sq. Yds.
Bridge.	Sixth and Eleventh.	5,428
Central.	Jackson and Union.	5,370 $\frac{5}{10}$
City Hall Avenue.	Shattuck Street and Bank Building.	76 $\frac{2}{10}$
Middlesex.	B. & L. R. R. and Street op. Foundry.	3,172 $\frac{3}{10}$
Shattuck.	Merrimack and Market.	1,488
Warren.	Central and Norris's Stable.	608 $\frac{2}{10}$
	Total	16,143 $\frac{2}{10}$

GUTTER PAVING.

Two thousand one hundred and eighty square yards of cobble paving have been laid in the following named Streets :

Carlton. Moody. School. Chestnut. Lawrence. Eighth. Tenth. John. Fourth. Read. Abbott. Loring. Twelfth.

STONE CROSSINGS.

Forty-one granite crossings have been laid on the following named streets :

Bridge. Middlesex. Merrimack. Moody. Fletcher. Central. Broadway. Charles. Thorndike. Andover. Grove. Market. Warren. Cross. Westford. Cabot.

REPORT OF THE STREETS BUILT TO GRADE.

STREETS.	BETWEEN WHAT STREETS.
Bridge.	Eleventh and Thirteenth.
Beach.	Sixth, and land of J. M. G. Parker.
Bartlett.	Alder, and land of H. H. Barnes.
Cambridge.	Chelmsford and Hale.
Canton.	Middlesex and Princeton.
E. Merrimack.	Land of Props. of Locks and Canals, and east-
Everett.	Fayette and Andover. [erly line of Hovey's land.
Hastings.	Westford and Liberty.
Jewett.	West Sixth and Hildreth.
Lombard.	Mount Vernon and School.
Lane.	Westford and Liberty.
Marginal.	Wilder and Porter.
Mount Hope.	Riverside and Fourth Avenue.
Osgood.	Westford and Liberty.
Porter.	Marginal and Middlesex.
Smith.	Liberty and Powell.
Twelfth.	Bridge and April.
Thirteenth.	Bridge and June.
West Third.	Bridge and Coburn.

MACADAMIZING.

Streets have been macadamized as follows :

STREETS.	BETWEEN WHAT STREETS.
Appleton.	Thorndike and Favor.
Charles.	Central and Lawrence.
Hildreth.	Bridge and Jewett. [ing.
Jackson.	Hamilton Co.'s R. R. to Appleton Co.'s Cross-
Lincoln.	From Gorham Street to the top of the hill.
Middlesex.	Land of Christopher Baron and Pawtucket St.
Riverside.	Gate house and land of Mr. Holden.
William.	George and Central.

BRIDGES.

Pawtucket Bridge has been replanked and small repairs made on bridges on Merrimack, Lawrence, Lincoln, Plain, and Dutton Streets.

SIDEWALKS.

Edgestone and concrete have been laid on the following named streets :

BARTLETT—on the northerly side from Alder Street, easterly.

BRIDGE—on the easterly side from Tenth Street to Thirteenth Street.

COURT—on the northerly side from Gorham Street to Linden Street.

CENTRAL—on the easterly side from Floyd Street to Wamesit Street.

CENTRAL—on the easterly side from Gorham Street to Lyon Street.

CHELMSFORD—on the westerly side from Westford Street to Boston & Lowell Railroad Bridge.

FAULKNER—on the easterly side from Lawrence Street to the Canal.

FLOYD—on the northerly side from Central Street to Kinsman Street.

FORD—on the westerly side, opposite land of A. P. Bonney.

GATES—on the easterly side from Marshall Street to Westford Street.

GORHAM—on the easterly side from the Mollahan Buildings to Davis Corner.

HOWARD—on the westerly side from Middlesex Street to Westford Street.

HOWARD—on the easterly side from Arch Street toward Westford Street.

HAMPSHIRE—on the easterly side from West Sixth Street, northerly.

LINDEN—on the westerly side, opposite St. John's Church.

MARSHALL—on the southerly side from Grand Street to Gates Street.

SALEM—on the southerly side, near Willie Avenue.

SCHOOL—on the westerly side from Westford Street, southerly.

WEST SIXTH—on the southerly side from Bridge Street to Jewett Street.

WILLIE AVENUE—on the easterly side, near Salem Street.

Edgestone only has been laid on the following named Streets :

BEACH—on the easterly side from Sixth Street to land of J. M. G. Parker.

EIGHTH—on the southerly side from Bridge Street to Methuen Street.

GREEN—on the southerly side from Central Street to George Street.

LANE—on the easterly side from Westford Street, southerly.

TENTH—on the northerly side from Bridge Street, easterly.

THIRTEENTH—on the southerly side from Bridge Street to opposite May Street.

Concrete, without edgestone, has been laid on the following named Streets :

APPLETON—both sides, near Thorndike Street.

CROSBY—on the southerly side from Central Street, easterly.

FAVOR—on the westerly side from Appleton Street, southerly.

LAWRENCE—both sides from Church Street to Tyler Street.

TENTH—on the southerly side from Bridge Street to Methuen Street.

THORNDIKE—on the easterly side from Appleton Street toward Middlesex Street.

The total amount of edgestone set during the year is nine thousand four hundred eighty-four (9,484) feet.

The total amount of concrete laid during the year is seven thousand and fifteen (7,015) square yards.

PERSONAL PROPERTY.

The following is a Schedule of the Personal Property in my care January 1st, 1881, belonging to the Appropriation for Roads and Bridges :

1 Engine,	\$500 00
Blacksmith tools and stock	450 00
10 tons Coal,	60 00
34 tons Hay,	850 00
5 tons Carrots,	55 00
$\frac{1}{2}$ ton Straw,	10 00
95 bushels Oats,	51 00
70 bags Meal,	35 00
8 Street Rakes,	4 00
7 Forks,	7 00
38 Horses,	7,600 00
16 sets Double Harnesses,	640 00
13 sets Single Harnesses,	325 00
4 sets Lead Harnesses,	32 00
28 Feed Baskets,	14 00
60 Currycombs and brushes,	40 00
47 Collars,	94 00
41 Halters,	20 00
70 Blankets,	210 00
41 Surcingles,	20 00
1 Horse Sling,	10 00
7 Horse Covers,	30 00
2 Buffalo Robes,	12 00
1 Boiler,	2 00
14 Double Carts,	840 00
7 Single Carts,	350 00
1 Watering Cart,	100 00
5 Wood Wagons,	200 00
3 Pauper Wagons,	175 00
<i>Amount carried forward</i>	<u>\$12,736 00</u>

SUPERINTENDENT OF STREETS.

11

<i>Amount brought forward</i>	\$15,074 70
46 Picks,	46 00
8 Striking Hammers,	16 00
11 Face Hammers,	27 50
7 Paving Hammers,	14 00
2 Hand Hammers,	2 00
5 Stone Hammers,	5 00
4 Brick Hammers,	2 00
350 lbs. Drills,	52 50
9 Plug Drills,	4 50
25 Crowbars,	50 00
10 Axes,	7 00
1 Adze,	1 00
1 Well Jack,	10 00
2 Jack Screws,	6 00
3 Plows,	10 00
2 Street Scrapers,	15 00
1 Scythe,	2 50
110 Stake Chains,	55 00
10 Draught Chains,	40 00
10 Hammer Handles,	1 00
48 Pick Handles,	5 00
Stone Crusher,	850 00
Stone Crusher Building,	500 00
2 sets Crusher Plates,	50 00
1 Street Broom,	30 00
20 bundles Broom-stuff,	1 40
2 Stone Wheelbarrows,	8 00
1 Platform Scale,	7 00
1 pair Draught Wheels,	50 00
2 Tubs,	1 00
6 Snow Scrapers,	25 00
1 Snow Plow,	15 00
1 Nail Hammer,	1 00
12 Tool Chests,	50 00
<i>Amount carried forward</i>	\$17,035 10

<i>Amount brought forward</i>	\$17,035 10
3 Dump Tubs,	12 00
2 Coal Hods,	1 50
3 Cart Bodies,	45 00
1 Wagon Body,	15 00
500 feet Oak Lumber (prepared for carts)	20 00
4,000 feet Spruce Plank,	68 00
4 Wood Baskets,	3 00
6 Spirit Levels,	14 00
1 Road Builder,	20 00
1 Clock,	6 00
8 Steel Wedges,	6 00
6 Coal Baskets,	6 00
3 Coal Shovels,	2 00
14 Stone Cutter's Points,	3 00
2 Trowels,	1 25
6 Paving Mauls,	30 00
1 Crosscut Saw,	4 00
3 Ladders,	12 00
1 Hand Cart,	5 00
4 Long-handle Shovels,	4 00
3 Derrick Tubs,	20 00
2 Chairs,	3 00
1 Boom-Derrick and Rigging,	100 00
1 Writing Desk,	15 00
5 Powder Cans,	5 00
4 Tamping Bars,	4 00
1 Hay Cutter,	10 00
420 feet Wide Flagging,	205 80
1,400 lbs. Mineral Salt,	14 00
50 feet North River Flagging,	12 50
	<hr/>
	\$17,882 15

SEWERS.

The following Table shows the Sewers built during the year: their length, size in inches, material, date when begun and when finished.

Streets.	Length.	Size in Inches.	Material.	Begun.	Finished.
Andover and Water.	469	15, and 35 x 23	Akron Pipe and Brick.	July 8	July 26
Austin and Ford.	657	12 and 15	Akron Pipe.	July 27	Sept. 22
Andrews. [Middle.	1099	12	Akron Pipe.	May 19	June 5
Central, Prescott, and	491	37x25 and 33x22	Brick.	July 26	Aug. 16
Dutton.	183	12	Akron Pipe.	Nov. 15	Nov. 18
Eighth.	48	10	Akron Pipe.	May 19	May 20
Fletcher and Dutton.	481	45x30 and 15	Brick and Akron Pipe.	May 11	June 30
Fayette.	169	12	Akron Pipe.	July 9	July 16
Fayette and Everett.	306	12	Akron Pipe.	July 1	July 10
Fifth.	380	15	Akron Pipe.	May 5	May 19
Fletcher and Bowers.	573	12	Akron Pipe.	March 30	April 13
Grove. [and Cheever.	242	12	Akron Pipe.	Sept. 28	Oct. 5
Hall, Coolidge, Aiken,	1610	15 and 12	Akron Pipe.	Sept. 20	Nov. 2
High and Bartlett.	459	12	Akron Pipe.	Mar. 8	March 27
Howard. No. 1.	390	12	Akron Pipe.	May 1	May 28
Howard. No. 2.	253	12	Akron Pipe.	June 2	June 25
Livingston.	442	12	Akron Pipe.	Nov. 3	Nov. 12
Lyon.	575	10	Akron Pipe.	May 12	May 17
Moody Street Outlet.	506	36	Brick.	Oct. 2	Oct. 12
Methuen.	627	12	Akron Pipe.	Nov. 1	Nov. 12
Myrtle.	1074	33x22 and 37x25	Brick.	March 9	May 10
Mt. Vernon.	1030	12 and 15	Akron Pipe.	April 10	April 28
Pollard.	253	12	Akron Pipe.	July 23	July 28
Robbins.	425	12	Akron Pipe.	July 14	July 24
Smith and Westford.	1158	15 and 12	Akron Pipe.	Aug. 19	Oct. 27
School.	216	10	Akron Pipe.	April 23	April 30
Tenth.	376	10 and 12	Akron Pipe.	Nov. 8	Nov. 15
Tremont. [tucket.	244	12	Akron Pipe.	Aug. 19	Aug. 25
Wanalancet and Paw-	992	18, 15 and 12	Brick and Akron Pipe.	June 7	June 29
Westford.	277	27x18	Brick.	July 5	July 20
Wilder.	298	12	Akron Pipe.	Sept. 17	Sept. 27
West Third.	713	12	Akron Pipe.	Oct. 25	Oct. 30
Willie.	78	12	Akron Pipe.	Aug. 17	Aug. 19
Whipple.	938	15 and 12	Akron Pipe.	April 29	May 12

The total number of feet laid during the year is eighteen thousand and thirty-two, which equal three and forty-one hundredths ($3\frac{41}{100}$) miles.

The following Sewers have been laid out, but have not yet been built:

Coburn Street. Columbus Avenue and Walker Street. Tenth Street. West Sixth Street.

The following is a Schedule of the Personal Property in my care January 1, 1881, belonging to the Appropriation for Sewers and Drains:

76 Shovels,	\$38 00
68 Picks,	68 00
17 Crowbars,	34 00
22 Striking Hammers,	44 00
10 Face Hammers,	30 00
29 Lanterns,	29 00
3 Anvils,	30 00
1 Horse,	300 00
1 Committee Wagon,	150 00
3 Pumps,	24 00
1 Farmer Boiler,	15 00
20,000 feet Lumber,	120 00
8 Tool Chests,	48 00
3 Blacksmith's Sledges,	9 00
1 Cast Iron Maul,	5 00
1 Hand Force Pump,	25 00
1 Cast Iron Pot,	2 00
2 pairs Rubber Boots,	3 00
2 Galvanized Dippers,	6 00
4 Hydrant Valves,	8 00
7 Plug Drills,	1 50
5 pairs Blacksmith's Tongs,	3 00
7 Rakes,	7 00
<i>Amount carried forward</i>	<u>\$999 50</u>

<i>Amount brought forward</i>	\$999 50
1 Tin Horn,	25
4 Galvanized Pails,	4 00
10 Sheeting Caps,	10 00
5 Oil Cans,	1 00
3 Forges,	65 00
2 Electric Batteries,	140 00
3 Shear Poles and Rigging,	120 00
4 Powder Cans,	4 00
3 Saws,	1 50
4 Hand Hammers,	4 00
9 Chains,	16 00
11 Tag Ropes,	11 00
6 Sheeting Mauls,	7 00
867 lbs. Drills,	130 00
3 Spirit Levels,	3 00
3 Jack Screws,	20 00
3 Trowels,	1 50
5 Axes,	3 75
6 Hoes,	3 00
8 Hose Reducers,	4 00
150 feet Rubber Hose,	15 00
7 Pails,	3 50
7 Wheelbarrows,	21 00
4 Grappling Irons,	1 00
4 Water Dippers,	40
3 Paving Hammers,	2 25
5 Concord Grates,	60 00
3 Catch Basin Traps,	24 00
100 lbs. Steel Drills ($\frac{3}{4}$ -in.)	15 00
4 Sheeting Grapnels,	5 00
1 Vice,	3 00
4 Stone Cutter's Points,	1 00
3 Hand Hammers,	4 50
1 Steel Square,	75
6 Dump Tubs,	48 00
2 Wrenches,	2 00
	<hr/>
	\$1,754 90

RECOMMENDATIONS.

I would recommend that the following named Streets be paved with small granite blocks :

CENTRAL—from Market Street to Merrimack Street.

MERRIMACK—from Central Street to Merrimack Canal.

ANDOVER—from the track of the Boston & Maine Railroad to Fayette Street.

SALEM—from Adams Street to Pawtucket Street.

HURD STREET—ought to be repaved this year as the wooden paving is rotten.

I think the appropriation should be larger than last year, in order to meet the increased expense of paving, and also for running the stone-crusher, as a large amount of material will be needed for macadamizing purposes.

The city has no good material for grading ; the gravel at the bank on Bradley Street contains too much clay, and that obtained from the Poor Farm bank is too sandy, so that hereafter, we must rely principally on paving and crushed stone for our main thoroughfares.

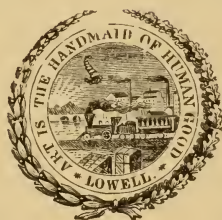
In closing this report, I desire to thank the Committee on Streets and Sewers for their uniform kindness and support in the discharge of my duties during the year.

Most respectfully submitted,

JOHN C. WOODWARD,

Superintendent of Streets.

ANNUAL REPORT
OF THE
SUPERINTENDENT PUBLIC BUILDINGS
OF THE
CITY OF LOWELL,
FOR THE YEAR 1880.



LOWELL:
COURIER PRESS: MARDEN AND ROWELL.
1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 11, 1881.

Read and sent to the Common Council.

SAMUEL A. MCPHETRES, *City Clerk*.

IN COMMON COUNCIL, January 11, 1881.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS. }
January 1, 1881.

To the City Council of Lowell:—

GENTLEMEN: In compliance with an ordinance requiring the Superintendent of Public Buildings to report, annually, in the month of January, the condition of the buildings belonging to the city, and the expenditures thereon, I hereby submit the following report:—

PUBLIC BUILDINGS.

The amount credited for repairing public buildings for the year was	\$20,906 82
Expended	9,968 63
Balance January 1, 1881	<u>\$10,938 19</u>

EXPENDED AS FOLLOWS:

H. R. Barker, repairing and altering piping at Government building, and setting engine in carpenter shop	\$236 46
Frederick Taylor, hardware	63 74
C. B. Coburn & Co., paint, oil, shellac, and glass	174 99
M. C. Pratt & Co., sheathing and lumber	437 67
James Barris, blacksmith repairing	18 16
G. W. Hall, rubber moulding	6 00
Horace Shattuck, hardware	22 85
Samuel D. Butterworth, patching plastering	37 92
A. Keddie, sawing lumber	4 80
Howes & Burnham, lumber	245 86
T. R. Garity, piping and radiator in Miss Bartlett's store, and repairing	211 39
<i>Amount carried forward</i>	<u>\$1,459 84</u>

REPORT OF THE

<i>Amount brought forward</i>	\$1,459 84
Roads and bridges, Engineer's service, laying out cellar, and blacksmithing	\$46 25
C. E. Adams, hardware	79 22
H. A. Fielding, hardware	8 00
F. Hill, iron	4 00
A. L. Brooks, lumber	57 48
Whitney & Tibbetts, lumber	13 90
A. P. Bateman, lumber	17 90
N. T. Staples, drain pipe	2 70
Fiske & Spalding, paint, oil, etc.	117 61
J. Kendall, paint and glass	14 42
Adams & Co., bocking	12 50
J. C. Bennett, hardware	2 00
Roads and bridges. Coal	45 86
Cahill Brothers, shoeing horse	8 50
French & Puffer, 2 doz. brooms	9 00
Burrows estate, building fence	130 38
C. C. Barnes, for wagon and cover	101 50
B. Libbey, repairing lightning rods	11 25
J. Gilchrist, repairing pipe	4 61
J. Brabrook, repairing harness	9 60
B. Libbey, lightning rods on Fourth Street Ward Room	109 62
Water Board, use of water for shop	10 00
William Kelley, sash and doors	7 50
W. W. Carey, saw bench for shop	225 00
C. B. Stevens, building stairs, Fourth Street Ward Room	50 48
Robert Goulding, repairing roofs	2 86
Pevey Brothers, castings	6 00
E. W. Coburn, plastering entry to Ward Room, Fourth Street	39 79
J. O. Whittemore, repairing lightning rod	6 00
Adams & Co., bocking	5 25
T. Costello, plumbing	14 40
Huse & Goodwin, advertising	7 00
Building new shed, repairing and making box stalls at City Stables	1,320 57
Valentine Wilson, cash on contract for new Engine House on Fletcher Street	1,500 00
H. R. Barker, repairing piping	37 54
T. Costello, plumbing	31 72
Painting outside woodwork to Huntington and Jackson Halls	44 00
American Bolt Company, bolts	10 20
<i>Amount carried forward</i>	\$5,584 45

SUPERINTENDENT OF PUBLIC BUILDINGS. 5

Amount brought forward \$5,584 45

BURROWS ESTATE.

Fire Department, washing vaults at Burrows estate	7 00
Howes & Burnham, shingles for tenements on Burrows estate	30 65
A. L. Brooks & Co., shingles, Burrows estate	61 14
Lumber from shop, Burrows estate	10 00
Marden & Rowell, advertising, Burrows estate	4 25
School houses, for lumber, Burrows estate	3 20
Benjamin G. Brown, contract for grading, Burrows estate	45 00
Stone, Batchelder & Co., advertising, Burrows estate	1 50
M. C. Pratt & Co., lumber, Burrows estate	3 80
J. W. Bruce, service as auctioneer, Burrows estate	5 00
	<u>\$5,755 99</u>

The balance of the expenditures was for ordinary repairs and labor on the different appropriations.

SCHOOL HOUSES.

Amount credited for school houses	\$39,159 10
Expended	33,278 04
Balance undrawn, January 1, 1881	<u>\$5,881 06</u>

EXPENDED AS FOLLOWS:

New School House on Cheever Street	\$3,496 29
Lot of land on Tenth Street, 10,730 feet	2,682 50
New School House on Tenth Street	5,032 94
Addition to High School House	3,208 33
Lot of land on corner of Wilder and Pine Streets, 44,0001 feet	5,280 12
Building privy and laying floors at Colburn School House	682 47
Water closet and sewer at Edson School House	273 06
Stock and labor, laying floors at Franklin School House	145 62
F. M. Merrill, contract taking down tenement block on Kirk Street, Paid A. J. Calef on contract to Kirk Street School House	180 00
Built fence at Kirk Street School House	6,000 00
Built fence at Kirk Street School House	161 39
Water closet at Moody School House	173 99
Laying floor at Rock Street School House	55 00
Painting School House at Middlesex Village	46 50
Built new vault at Race Street	146 70
Painting Dover Street School House and fence	132 97
Built water closet at Varnum School	184 00
C. B. Coburn, paint, oil, glass, etc.	227 37
<i>Amount carried forward</i>	<u>\$28,109 25</u>

<i>Amount brought forward</i>	\$28,109 25
Fiske & Spalding, oil, glass, etc.	342 01
J. Kendall, oil, glass, etc.	43 96
D. M. Prescott, patching plastering	11 00
H. A. Fielding, hardware	68 75
H. B. Shattuck, hardware	50 04
F. Taylor, hardware	148 13
S. D. Butterworth, repairing plastering	21 73
Rollins & Sargent, repairing plastering	55 06
John Powers, repairing plastering	26 50
H. B. Shattuck, hardware	4 60
Pevey Brothers, castings	129 71
F. M. Merrill, mason work	50 95
Boarding horse	171 50
J. A. Chamberlain, repairing water closet	15 63
E. A. A. & T. Smith, concreting	30 40
Cahill Brothers, shoeing horse	26 65
Paid for teaming	82 95
Repairing slate roofs	11 08
Frank E. Shaw, repairing lightning rods	24 00
Whitney & Tibbetts, lumber	617 15
M. C. Pratt & Co., lumber	213 63
Howes & Burnham, lumber	30 93
	<hr/>
	\$30,285 61

The balance was for repairs in general.

It will be necessary to relay a number of the floors in the different school houses this season, and paint a number of the school houses inside and out.

I would recommend, if there are to be any new houses built this year, that preparation should be made for the same early in the season, for they can be built at better advantage and cheaper than if put off until summer.

The furniture in the Cheever and Tenth Streets school houses is not included in the cost of the buildings, but the cost of which was \$690 00

ENGINE HOUSES.

EXPENDED AS FOLLOWS:

Alterations to Steamer One House, Gorham Street	\$529 05
Alterations to Steamer Two House, Branch Street	632 14
Alterations to Steamer Three House, Middle Street	651 12
	<hr/>
<i>Amount carried forward</i>	\$1,812 31

SUPERINTENDENT OF PUBLIC BUILDINGS.

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<i>Amount brought forward</i>	\$1,812 31
Alterations to Hook and Ladder No. One House, Middle Street . .	364 82
Alterations to Hose No. Five House, Fourth Street, including boiler,	1,235 51
Alterations to Hose No. Seven House, Fletcher Street	30 04
Alterations to Warren Street House	602 69
General repairing	255 73
	<hr/>
	<u>\$4,301 10</u>

COMMONS.

Cost of Building Band Stand at South Common	\$462 40
Cost of building Flag-Staff at North Common	314 52

EXPENDED AS FOLLOWS :

Howes & Burnham, lumber for fences	\$108 88
Frederick Taylor, hardware	39 87
Whitney & Tibbetts, chestnut posts	12 81
Fisk & Spalding, paint and oil	25 88
C. B. Coburn & Co., paint, oil, etc.	12 20
Frederick Taylor, hardware	23 10
School Houses, for paint, lumber, etc.	8 74
J. Kendall, paint	8 23
S. G. Mack, galvanized iron	2 77
D. P. Knowlton, teaming	5 00
D. McCarthy, teaming	3 50
Lovejoy & Son, repairing mowing machine	1 50
C. B. Relyea, repairing mowing machine	1 75
C. E. Adams, hardware	21 40
A. L. Brooks & Co., lumber	2 90
Howes & Burnham, lumber for benches	14 20
Labor and stock, painting fences to the North and South Commons,	130 79
	<hr/>
	<u>\$1,193 44</u>

The amount paid out to those under my employ and charged to the several appropriations, is as follows :—

To School Houses	\$5,034 59
School Janitors	8,307 57
Schools	982 84
Repairs of Public Buildings	1,303 52
Fire Department	1,375 17
Support of Paupers	326 02
Police, as Fireman and Janitor of Police Court	794 00
	<hr/>
<i>Amount carried forward</i>	\$18,123 71

REPORT.

<i>Amount brought forward</i>	.	.	.	.	.	.	\$18,123 71
Commons	.	.	.	.	.	.	415 59
Police, making and moving Horse Shed	.	.	.	.	.	.	74 41
Reserved Fund	.	.	.	.	.	.	57 99
Health Account	.	.	.	.	.	.	8 56
Fourth of July Celebration	.	.	.	.	.	.	89 87
							\$18,770 13

PERSONAL PROPERTY OWNED BY THE CITY

UNDER MY CHARGE, JANUARY 1, 1881.

865 feet pine boards	\$34 60
300 feet Georgia pine floor boards	12 00
395 fence pickets	7 90
245 feet Whitewood boards	9 00
210 feet pine sheathing	7 35
100 feet 2-inch pine blank	4 00
570 feet 3-inch pine plank	28 50
275 feet cherry boards	22 00
500 feet oak plank	15 00
1000 feet old lumber	12 00
10 gallons varnish	15 00
2 old stoves	10 00
30 Primary desks	30 00
124 Grammar desks	136 40
4 Teachers' desks	100 00
5 boxes glass	25 00
95 desk irons, large size	50 00
113 pedestals	106 00
16 old tables	10 00
88 desk irons, small size	40 00
2 water pails	35
4 waste baskets	2 40
2 coal hods	1 60
242 gross chalks	29 25
41 settees at the several armories	41 00
21 mats	27 00
6 mop-handles	1 80
13 hand-brushes	3 25
7 match-boxes	1 05
7 ink-fillers	3 50
<i>Amount carried forward</i>	<hr/> \$785 95

<i>Amount brought forward</i>	\$785 95
10 drinking-dippers	1 00
25 yards Brussels carpeting	50 00
2 gas-fixtures	3 00
3 dozen ink wells	1 86
50 Grammar chairs	30 00
106 Primary chairs	58 30
10 registers	40 00
4 yards enameled cloth	2 80
25 small chairs	17 50
35 large coffins	175 00
7 small coffins	21 00
11 ladders	33 00
100 small chairs in Ward 6 Ward Room (evening school)	50 00
11 tables in Ward 6 Ward Room (evening school)	16 50
70 chairs in Ward 3 Ward Room (evening school)	35 00
16 tables in Ward 3 Ward Room (evening school)	24 00
28 settees in Ward Rooms. (evening school) belonging to public buildings	23 00
360 chairs at Green (evening school)	275 00
90 tables at Green (evening school)	300 00
240 stools at Green (evening school)	240 00
4 tables at Howard Mission (evening school)	12 00
1 teacher's desk, Howard Mission (evening school)	3 00
4 settees at Howard Mission (evening school)	4 00
15 chairs at Howard Mission (evening school)	7 50
400 feet of rubber hose at different schools	48 00
3 dozen padlocks	1 50
2 casks nails	8 00
Furniture at the City Government Building and Huntington and Jackson Halls	9,000 00
Furniture at School Houses, not included in real estate	10,200 00
Furniture in Ward Rooms	150 00
Furniture in Armories and drill rooms	550 00
9 door-sets	6 75
2 floor sets	11 25
1 horse	150 00
2 wagons and harnesses	175 00
1 sleigh	75 00
2 blankets and one horse-cover	2 00
1 cast steel bell on Market House	900 00
1 bell in High Street Church tower	500 00
1 bell in Varnum School House tower	1,000 00
1 bell in city yard, for the new Engine House	600 00
3 flag-staffs	1,214 00
	<hr/>
	<u>\$26,806 51</u>

SCHEDULE OF TOOLS BELONGING TO THE CITY UNDER
MY CHARGE, JANUARY 1, 1881.

2 picks	\$2 00
12 shovels	8 00
10 wheelbarrows	20 00
1 shingle ripper	1 50
1 grindstone	10 00
1 steel yard	1 00
2 augers	2 50
6 pairs steps	9 00
6 wood saws	5 00
4 hand screws	3 00
9 axes	8 00
5 pairs pipers' tongs	13 00
4 masons' jacks	10 00
12 paint pots	6 00
15 oil cans	12 00
12 paint brushes	6 00
1 set of painters' rigging for stage	40 00
2 sand boxes for painting	1 00
1 saw-bench and engine in shop	270 00
	<hr/>
	\$428 00
	<hr/>

REAL ESTATE OWNED BY THE CITY.

City Government Building	\$30,000 00
Huntington and Jackson Halls	41,200 00
Market House	56,000 00
City Scales, rear of Market House	1000 00
Shed back of Market House	150 00
High School House on Ann and Kirk Streets	45,300 00
Bartlett School House on Clark Street	13,000 00
Edson School House on Highland Street	17,400 00
Colburn School House on Lawrence Street	21,000 00
Franklin School House on Middlesex Street	14,000 00
Moody School House on East Merrimack Street	12,000 00
Green School House on Merrimack Street	105,800 00
Mann School House on Lewis Street	13,500 00
Varnum School House on Myrtle Street	17,000 00
Sherman School House on Powell Street	7,000 00
Primary School House on Merrimack and Race Streets	3,400 00
Primary School House on Middlesex and Elliott Streets	6,000 00
Primary School House and Ward Room on Church Street	5,000 00
Primary School House on School Street	6,700 00
Primary School House on High Street	3,600 00
Primary School House on Paige Street	2,300 00
Primary School Houses on Carter Street	7,500 00
Primary School House on Charles Street	2,500 00
Primary School House on Fayette Street	5,500 00
Primary School House on Rock Street	2,100 00
Primary School House on Cabot Street	3,250 00
Primary School House on West Sixth Street	10,038 00
Primary School House on River Street	5,500 00
Primary School House on Ames Street	7,700 00
Primary School House on Dover Street	7,700 00
Primary School House on Tenth Street	7,715 44
Primary School House on Cheever Street	3,476 36
Primary School House on London Street	3,255 00
<i>Amount carried forward</i>	<u>\$487,584 80</u>

REPORT OF THE

<i>Amount brought forward</i>	\$487,584 80
Primary School House on Chapel Street	5,400 00
Primary School Houses on Central and Chapel Streets	9,000 00
Primary School House on Howard Street	4,000 00
Primary School House on Worthen Street	26,000 00
Primary School House and Ward Room on Central Street	21,200 00
Primary School House on Common Street	34,000 00
Primary School House on High Street	15,000 00
Primary School House on Agawam Street	6,000 00
Primary School House on Varnum Avenue	500 00
Primary School House on Mammoth Road	3,000 00
Primary School House at Middlesex Village	3,000 00
Hose Carriage House on Fayette Street	3,100 00
Hook and Ladder House, Ward Room, Carpenter Shop and Armories on Middle Street	21,000 00
Double Engine House and Stable, Middle Street	14,250 00
Engine House and Stable on Gorham Street	13,200 00
Engine House, Ayer's City	500 00
Hose Carriage House, Fletcher Street	3,500 00
Hose Carriage House on Central Street	3,700 00
Hose Carriage House on Warren Street	2,400 00
Almshouse and Farm	25,000 00
House for Chaplain at City Farm	2,500 00
Pest House at City Farm	2,500 00
Land and Buildings on Kirk Street	22,100 00
Land and Buildings on Adams, Fletcher, Cross and Lagrange Sts.	51,329 00
Public landing, rear of Market House, exclusive of the land set off by the Locks and Canals	1,250 00
Lot of land on Chelmsford Street	1,600 00
Lot of land on First Street	190 00
Lot of land on Fletcher and Whiting Streets	1,133 00
Lot of land on Middle Street	10,600 00
Lot of land on Tenth Street	5000 00
North Common	17,000 00
South Common	23,300 00
Lot of land and Engine House in progress of building on Fletcher Street	3,000 00
Lot of land on Wilder and Pine Streets	5,280 00
New Engine House, Branch Street	17,784 00
New Engine House on Fourth Street	12,600 00
Mount Vernon Park	2,000 00
Belvidere Park	2,300 00
House and land on Wilder Street	5,100 00
New three story brick house at Poor Farm	2,400 00

\$890,300 80

WATER WORKS.

The real estate and personal property, belonging to
city, occupied and used by the water works, net cost to
January 1, 1881 \$1,790,828.50

LORENZO G. HOWE,
Superintendent of Public Buildings.

ANNUAL REPORT

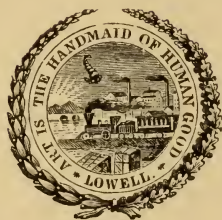
OF THE

SUPERINTENDENT OF STREET LAMPS

OF THE

CITY OF LOWELL,

FOR THE YEAR ENDING DECEMBER 31, 1880.



LOWELL:
COURIER PRESS: MARDEN AND ROWELL.
1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 25, 1881.

Received and read.

SAMUEL A. MCPHETRES, *City Clerk.*

REPORT.

LOWELL. January 15th, 1881.

The Mayor and Board of Aldermen:

GENTLEMEN: Herein is submitted the Annual Report of the Superintendent of Street Lamps for the year ending December 31, 1880.

There have been added during the year nineteen (19) gas and forty-six (46) fluid lamps in all, an addition of sixty-five (65), making seven hundred and fifty-four (754) gas and one hundred and eighty-six (186) fluid lamps, owned and maintained by the City.

The location of gas lights added during the year is as follows: on Fairmount, Summer, Faulkner, Willow, Mansur, Talbot, Tenth, Fremont, East Merrimack, Howard, and Wilder Streets, one each; on Chelmsford, Pawtucket, Fremont, and Wyman Streets, two each.

The Fluid Lamps added are located as follows: on Tenth, Twelfth, West, Shaw, Cambridge, Howard, Powell, Porter, Oliver, Aiken, Cheever, Lombard, Suffolk Court, Maiden Lane, Dutton, Bowers, and Dane, one each; on River, Conant, Main, Chelmsford, and Ford, two each; on Middlesex Street, Varnum Avenue, four; Pawtucket, five; and Riverside, six each.

A new arrangement has been made the past year by the burning of gas lights near the Banks all night and many of the street lights have been kept burning an hour later than formerly.

On the 20th of May, the Committee on Lighting, entered into a contract with the Globe Gas Light Co., of Boston, by which they assumed the care of all the fluid lights in the City, and attached their Patent Globe Burners, thus doing away with the old fluid lamps, which could be made to give but little light under the most favorable circumstances, and in stormy or windy nights none at all. Under the terms of this contract the Globe Gas Light Co. apply their apparatus, furnish the men to do the lighting, and keep the lanterns clean and in repair, and the contract can be closed at any time by vote of the Committee on Lighting. Since the first month the arrangement has given excellent satisfaction and I think few of our citizens would be content to return to the old fluid lamps. The cost of the new light is but little in excess of the old ones, and is considerably less than the cost of gas lights. It was not intended that these lights should take the place of gas, but for use in the suburbs outside the gas mains they are considered a very great improvement.

EXPENDITURES.

Gas for Street Lamps, for 528,380 hours at \$0.0072, and	
522,029 hours at \$0.0066 per hour	\$7,253 63
Gas for Public Buildings	1,466 27
Globe Gas Light Company, 22,044 lights	1,653 26
Pay Rolls, for lighting and care	3,563 15
Horse-Shoeing, board, etc.	739 96
Horse	225 00
Use of horse	33 00
Naphtha	54 92
Alcohol	94 40
Glass, putty, paint, oils, etc.	118 85
Iron Posts and arms	702 50
Wood Posts	42 60
Telephone	28 33
Water	13 00
Printing	17 75
Freight	6 12
Repairs on harnesses, robe, etc.	38 40
Lamp Frames	101 00
Difference in wagons	90 00
Globe Lanterns and Globes	369 10
Square Lanterns and Tops	400 50
Matches	20 00
Coal	12 50
Painting and varnishing wagons and sleighs	49 01
Burners, waste, etc.	17 37
Repairs on lanterns	105 94
Repairs on lamp posts	33 61
Pipe, fittings, and labor	155 22
Pails, dusters, brushes, etc.	15 07
Stamps, stationery, etc.	16 65
Total expense for the year 1880	<u>\$17,437 11</u>

The appropriation, with unexpended balance and credits.

amounted to	\$19,745 63
Expended	17,437 11
Balance on hand	<u>\$2,308 52</u>

The Personal Property owned by the City, and under the charge of the Superintendent of Lighting, amounts to \$20,280.70.

Respectfully submitted,

EDWARD S. HOSMER,

Superintendent.

ANNUAL REPORTS

OF THE

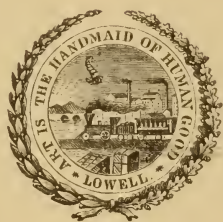
SUPERINTENDENT OF CITY SCALES,

AND

MEASURER OF WOOD AND BARK,

OF THE

CITY OF LOWELL, FOR THE YEAR 1880.



LOWELL. MASS. :

Printed by Campbell & Manscom, Morning Times, 22 Central Street.

1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Jan. 25, 1881.

Received and read.

SAMUEL A. McPHETRES, City Clerk.

REPORT.

To the City Council of Lowell:

GENTLEMEN: The Superintendent of the City Scales for the year ending December 31, 1880, would beg leave to make the following report. I have weighed:

2486	Loads of Hay,	making 2008 tons, 552 lbs.	
397	“ Straw,	257	“ 1431 lbs.
160	“ Coal,	283	“ 605 lbs.
147	“ Old Iron,	133	“ 1755 lbs.
3	“ Paper,	1	“ 460 lbs.
3	“ Skivings,	3	“ 1480 lbs.
1	“ Corn Fodder,		1145 lbs.
9	“ Paper Stock,	16	“ 432 lbs.
15	“ Waste,	48	“ 10 lbs.
1	“ Sand,		1220 lbs.
20	“ Bagging,	19	“ 1630 lbs.
13	“ Pop Corn,	14	“ 595 lbs.
14	“ Bones,	9	“ 1945 lbs.
40	“ Carrots,	32	“ 1020 lbs.
1	“ Beets,	1	“ 1000 lbs.
1	“ Potatoes,		1325 lbs.
13	“ Hams and Shoulders,	9	“ 1870 lbs.

REPORT.

1 Load	of Scraps,	making	1 tons, 1030 lbs.
1	“ Soap,	“	1 “ 230 lbs.
3	“ Pork,	“	1 “ 210 lbs.
2	“ Lead,	“	1 “ 1285 lbs.
3	“ Salt,	“	4 “ 1000 lbs.
1	“ Zinc,	“	“ 455 lbs.
1	“ Water pipe,	“	1 “ 570 lbs.
1	Organ,	“	200 lbs.
5	Indigo cases,	“	390 1-2 lbs.
4	Cases of Tobacco,	“	1775 lbs.
1	Buggy,	“	295 lbs.
323	Horses,		
17	pr. Oxen,		
5	Wagons,		

Fees, \$670.09.

S. M. PATTERSON,

Supt. City Scales.

REPORT OF THE MEASURER OF WOOD AND BARK.

I have measured:

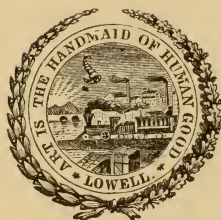
6231	Loads of Wood,	making	5584 cords.
588	“ Manure,	“	389 1-2 cords.
1	“ Stone,	“	2 3-4 feet.

Fees, \$337.45.

S. M. PATTERSON,

Measurer of Wood and Bark.

ANNUAL REPORT
OF THE
SEALER OF WEIGHTS AND MEASURES
OF THE
CITY OF LOWELL,
FOR THE YEAR 1880.



LOWELL, MASS.:
Printed by Campbell & Hanscom, Morning Times, 22 Central Street.
1881.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 11, 1881.

Received and read.

SAMUEL A. McPHETRES, *City Clerk.*

REPORT.

LOWELL, DEC. 31, 1880.

CITY SEALER'S OFFICE, 26 Gorham St.

To the Honorable the Mayor and Board of Aldermen :

I have inspected and sealed the followed weights, measures, and scales for the year 1880: 15 Hay and Coal scales, 250 Platform scales, 500 Counter-balance scales, 250 Butcher and Spring scales, 3,328 Weights, 352 Measures.

I have condemned, as not up to the standard, 67 Milk Measures, 10 Platform scales and 72 Weights.

I have received for fees, and paid to City Treasurer, \$233.77.

I would suggest that the city sealer be made a public weigher, without pay from the city; that he may give a public weigher's certificate in case he is called upon to weigh an invoice of goods such as Wool, Indigo, &c.

JAMES MURPHY,

City Sealer.

CITY DOCUMENT, 1881.

SALARIES

OF THE

OFFICERS OF THE CITY OF LOWELL,

FOR THE YEAR 1881.

[AS PASSED BY THE CITY COUNCIL.]



LOWELL, MASS.:

Printed by Campbell & Hanscom, Morning Times, 22 Central Street.

1881.

CITY OF LOWELL.

In the Year Eighteen Hundred and Eighty-One.

RESOLUTION

ESTABLISHING THE SALARIES OF THE OFFICERS OF THE CITY OF LOWELL
FOR THE YEAR 1881.

*RESOLVED, by the Board of Aldermen and Common
Council of the City of Lowell, in City Council as-
sembled, as follows:*

The salaries of the several city officers for the year beginning on the first of April, one thousand eight hundred and eighty-one, shall be as herein mentioned; to be paid monthly, unless herein otherwise ordered.

SECTION 1. The salary of the MAYOR Mayor. shall be at the rate of eighteen hundred dollars per annum.

SEC. 2. The salary of the CITY CLERK City Clerk. shall be at the rate of eighteen hundred dollars per annum.

City Treasurer.

SEC. 3. The salary of the CITY TREASURER shall be at the rate of twenty-five hundred dollars per annum for performing the duties of City Treasurer and Collector of Taxes. He shall annually give a bond in the sum of fifty thousand dollars, with good and sufficient sureties satisfactory to the Mayor and Aldermen, for the faithful performance of his duties, and to account for all sums of money received in the sales of Water Bonds and the collection of Water Rates, and in the capacity of City Treasurer and Collector of Taxes.

Auditor of Accounts.

SEC. 4. The salary of the AUDITOR OF ACCOUNTS shall be at the rate of fifteen hundred and fifty dollars per annum.

City Solicitor.

SEC. 5. The salary of the CITY SOLICITOR shall be at the rate of fourteen hundred dollars per annum, which shall be in full for all services rendered the city.

Civil Engineer.

SEC. 6. The salary of the CIVIL ENGINEER shall be at the rate of twenty-four hundred dollars per annum, which shall be in full for services as Civil Engineer and Engineer of the Water Board, and he shall devote his whole time to the service of the

city. He shall be allowed such assistance as the chairman of the Joint Standing Committee on Streets, the chairman of the Standing Committee on Sewers and the president of the Lowell Water Board may determine.

SEC. 7. The salary of the CITY PHYSICIAN AND SUPERINTENDENT OF BURIALS shall be at the rate of three hundred dollars per annum, which shall be in full for all services rendered the city, including his duties as a member of the Board of Health.

City Physician and Superintendent of Burials.

SEC. 8. The salary of the LIBRARIAN OF THE CITY LIBRARY shall be at the rate of twelve hundred dollars per annum.

Librarian of the City Library.

SEC. 9. The salary of the CLERK OF THE COMMON COUNCIL shall be at the rate of two hundred and fifty dollars per annum.

Clerk of the Common Council.

SEC. 10. The salary of the CITY MESSENGER shall be at the rate of one thousand dollars per annum.

City Messenger.

SEC. 11. The salary of the MEASURER OF WOOD AND BARK in the rear of the Market House building, shall be at the rate of six

Measurer of Wood and Bark.

hundred dollars per annum; and he shall account for all fees received by him in his official capacity, shall pay the same into the treasury monthly, and at the same time make a report of the amount so paid to the Auditor of Accounts; and also shall be required to devote ten hours daily to his duty during business hours. The salary of any additional measurers of wood and bark shall be at such a rate as the Mayor and Aldermen may from time to time determine, *provided*, that the same shall not exceed the amount of fees received.

President of
the Lowell
Water Board.

SEC. 12. The salary of the PRESIDENT OF THE LOWELL WATER BOARD shall be at the rate of two hundred dollars per annum.

SEC. 13. The Joint Committee on Accounts and the Joint Committee on Finance may provide such clerical assistance in the offices of the City Clerk, City Treasurer, Auditor of Accounts and Assessors of Taxes, as may be necessary, the expense thereof to be charged to the Reserved Fund. The Joint Committee on Education may provide such clerical assistance to the Librarian of the City Library as may be necessary, the expense thereof to be charged to the appropriation for

Library. The Joint Committee on Military Affairs may provide such clerical assistance as may be necessary, in the distribution of State Aid, the expense thereof to be charged to the Reserved Fund.

POLICE.

SEC. 14. The salary of the CITY MAR- City Marshal.
SHAL shall be at the rate of seventeen hundred dollars per annum; and he shall furnish a horse and carriage for the use of the Marshal and his deputy.

SEC. 15. The compensation of the DEPU- Deputy Mar-
shal and Cap-
tain of the
Night Watch.
TY MARSHAL and CAPTAIN OF THE NIGHT WATCH shall be at the rate of three dollars per day each.

The compensation of the SERGEANTS OF Sergeants of
Police.
POLICE and DETECTIVES shall be at the rate of two dollars and seventy-five cents per day each.

SEC. 16. All fees received by the officers mentioned in the two preceding sections, for attendance as witnesses, or for any other service in an official capacity, shall be paid by the officer receiving the same, to the City Treasurer, and said officer shall, at the same

time, report to the Auditor of Accounts the amount thus paid: *provided, however*, that said officers need not account for any fees for travel and attendance before the Supreme Judicial and Superior Courts, as witnesses.

The Standing
Justice of the
Police Court
of Lowell.

SEC. 17. THE STANDING JUSTICE OF THE POLICE COURT OF LOWELL shall be paid at the rate of one hundred dollars per annum, for receiving complaints, issuing warrants, and trying cases under the Forty-Second Chapter of the General Statutes, or any subsequent Act, or Ordinance concerning truant children and absentees from school.

SUPERINTENDENTS AND INSPECTORS.

Superintendent
of Streets.

SEC. 18. The salary of the SUPERINTENDENT OF STREETS shall be at the rate of eighteen hundred dollars per annum. The city shall furnish a horse for his use.

Superintendent
of Public
Buildings.

SEC. 19. The salary of the SUPERINTENDENT OF PUBLIC BUILDINGS shall be at the rate of fifteen hundred dollars per annum. The city shall furnish a horse and conveyance for the use of himself and the men under his charge.

SEC. 20. The salary of the SUPERINTEND-
ENT OF THE WATER WORKS shall be at the
rate of sixteen hundred dollars per annum,
and he shall furnish a horse and carriage for
his own use.

SEC. 21. The salary of the SUPERINTEND-
ENT OF CITY SCALES shall be at the rate of
two hundred dollars per annum, and he shall
pay into the City Treasury all moneys re-
ceived for fees.

The salary of any additional weigher of
hay and other articles shall be at such rate as
the Mayor and Aldermen may from time to
time determine, provided that the same shall
not exceed the amount of fees received.

SEC. 22. The salary of the FISH WAR-
DEN shall be at the rate of forty dollars per
annum.

SEC. 23. The salary of the SEALER OF
WEIGHTS AND MEASURES shall be at the rate
of four hundred dollars per annum, and all
fees received by him shall be paid into the
City Treasury monthly, and he shall at the
same time, report to the Auditor of Accounts
the amount of such payment.

Secretary of
the Board of
Overseers of
the Poor.

SEC. 24. The salary of the SECRETARY OF THE BOARD OF OVERSEERS OF THE POOR shall be at the rate of ten hundred dollars per annum.

Chairman of
the Board of
Health.

SEC. 25. The salary of the CHAIRMAN OF THE BOARD OF HEALTH shall be at the rate of five hundred dollars per annum; and the salary of the other appointed member of the Board of Health shall be at the rate of two hundred dollars per annum.

ASSESSORS' DEPARTMENT.

Chairman of
the Board of
Assessors.

SEC. 26. The salary of the CHAIRMAN OF THE BOARD OF ASSESSORS shall be nine hundred dollars per annum; and the salary of the SECRETARY of the Board of Assessors shall be eight hundred and seventy-five dollars per annum, and he shall keep a record of all abatements and changes in tax bills; and the salary of each of the other Assessors shall be eight hundred dollars per annum; and the said Assessors shall make out and distribute the tax bills. They shall receive their pay pro rata, monthly, during the working season. The Assessors shall devote their whole time,

Secretary and
other Asses-
sors.

from March 1st to October 15th, to the service of the city, and shall engage in no other business or calling during that time. They shall jointly make a valuation of the real estate in the city, and enter the same in a book to be kept for mutual reference, the same to be done before entering upon a subdivision of their duties of assessing in May.

FIRE DEPARTMENT.

SEC. 27. The salaries of the several members of the Fire Department for the year beginning April first, one thousand eight hundred and eighty-one, shall be as herein mentioned, to be paid semi-annually unless otherwise ordered.

The salary of the CHIEF ENGINEER shall be <sup>Chief Engi-
neer.</sup> at the rate of fourteen hundred dollars per annum, payable monthly, which shall be in full payment for all services which may be required of him by the City Council; and he shall devote his whole time to the duties of his office.

First Assistant Engineer.

The salary of the FIRST ASSISTANT ENGINEER shall be at the rate of two hundred dollars, and of the other Assistant Engineers at the rate of one hundred and seventy-five dollars each per annum.

The Secretary of the Board of Engineers.

THE SECRETARY OF THE BOARD OF ENGINEERS, who shall be a member of the Board, shall receive twenty-five dollars additional, which shall be in full payment for all the services which may be required of him by the Mayor and Aldermen, the Chief Engineer and the Board of Engineers.

Foremen and Clerks.

THE FOREMEN of the respective Hose, Hook and Ladder and Steam Fire Engine Companies, shall be paid at the rate of one hundred and sixty dollars each per annum.

Drivers.

DRIVERS of Steamers, Hook and Ladder, Horse Hose Carriages, and Protective Wagon, who shall perform all the duties of Stewards, and all other permanent men, shall be paid two dollars and twenty-five cents per day, payable monthly.

Engineers of Steam Fire Engines.

ENGINEERS OF STEAM FIRE ENGINES shall be paid at the rate of two hundred dollars per annum.

ASSISTANT ENGINEERS OF STEAM FIRE ENGINES shall be paid at the rate of one hundred and fifty dollars per annum. Assistant Engineers of Steam Fire Engines.

All other MEMBERS of Steam Fire Engine, Hose and Hook and Ladder Companies, shall be paid at the rate of one hundred and fifty dollars per annum each. Members.

SEC. 28. Whenever any person in the employment of the city shall demand payment of his salary, or any part thereof, it shall be the duty of the Auditor and City Treasurer to deduct therefrom any and all sums of money due from such officer to the city.

